3M-CWA-15

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

MASTER COPY
Version 2
April 2004

3M
Cordova, Illinois

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Feb-18	--	All		Added Q1, Q2, Q3, Q4 2017 Visual Inspection and 2017 Annual Report	Annual Review and Updates. Updated LSO list of Stormwater training, 3M Waste Stream Profile Volume Summary Report. Added LSO List of EE Stormwater Trainings. Updated Section 3 format and tank contents. Updated TOC.
Feb-18	3	-		Removed 2011 Annual Inspection Report	Retension Requirements and Policy

2/20/18

Sept 2017 - Feb 2018 revisions reviewed by Elizabeth Herbst - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Mar-19	App 3 and 4	All		Added Q1, Q2, Q3, Q4 2018 Visual Inspection and 2018 Annual Report	Annual Review and Updates.
Mar-19	--	All		Annual Updates	Annual Review and Updates. Updated LSO list of Stormwater training, 3M Waste Stream Profile Volume Summary Report. Added LSO List of EE Stormwater Trainings. Updated Section 3 format and tank contents.
Mar-19	App 6			Appendix 6: Construction Stormwater permits	Removed permits with NOTs in 2014; Added current construction permits
Mar-19	3	-		Removed 2012 Annual Inspection Report	Retension Requirements and Policy

Feb 2018 - Mar 2019 revisions reviewed by Elizabeth Herbst - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Dec-15	4	-		Added 2015 Q4 Inspection	Permit requirement
Feb-16	3	-		2015 Annual Inspection Report submitted	Permit requirement
Feb-16	3	-		Removed 2010 Annual Inspection Report	Retension Requirements and Policy
Feb-16	3	37		Added valves 138 and 139, for BLDGs 16 and 22, respectively	New containment
Feb-16	2	All		Administrative changes for typos. Update 3P, Employee Training Program, Preventive Maintenance Program, and EHSS Management Systems sections with updated information including statistics and dates.	General review for outdated information and Enviro audit item on employee training.
Sep-16	4	-		Added Q1, Q2, and Q3 2016 quarterly inspections.	
Feb-17	--	All		Added Q4 Visual Inspection and 2016 Annual Report.	Annual Review and Updates. Updated Storm Drain Valve Numbers, 3M Waste Stream Profile Volume Summary Report. Added LSO List of EE Stormwater Trainings. Added SWPPP / SPCC Powerpoint (LSO) Slides. Updated TOC.

2-23-17

Sept 2016 - Feb 2017 revisions reviewed by Aaron Smith - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Dec-15	4	-		Added 2015 Q4 Inspection	Permit requirement
Feb-16	3	-		2015 Annual Inspection Report submitted	Permit requirement
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Sep-16	4	-		Added Q1, Q2, and Q3 2016 quarterly inspections.	

Hollace A. Casillas Env. Engr 10/04/16

Oct 2015 - Sept 2016 revisions reviewed by Hollace A Casillas - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Dec-15	4	-		Added 2015 Q4 Inspection	Permit requirement
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Hollace A. Casillas Env. Engineer

Oct 2015 - Sept 2016 revisions reviewed by Hollace A Casillas - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Feb-15	3	-		2014 Annual Inspection Report submitted	Permit requirement
Mar-15	4	-		2015 Q1 Inspection	Permit requirement
Jun-15	4	-		2015 Q2 Inspection	
Sep-15	4	-		2015 Q3 Inspection	

Hollace A. Casillas 9/14/15

Jan - Dec 2015 revision reviewed by Hollace A Casillas - Env. Engineer

Sept
pmt.
9/14/15

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Apr-14	App 6	-		Added NOT notification for CS-16 General Permit	Project closed
May-14	App 6	-		Added IEPA NOT letter for CS-16 General Permit	Project closed

April/May 2014 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Feb-14	1	1	Special Condition 13	Special Condition 12, plus minor editorial updates	Permit effective 1/1/13
Feb-14	App 2	-		included updated copy of NPDES permit, changed reference to special condition 12	Permit effective 1/1/13
Feb-14	App 1	-	Removed 2009 summary	Updated with 2013 summary	
Feb-14	2	All		Updated NPDES, 3P, Waste Management and EHSS Management sections; formating and editorial changes	
Mar-14	App 3			Added 2013 Annual Report	
Mar-14	App 3			Removed 2008 Annual Report	Record Retention
Mar-14	3	All		Updated Industrial Activities section to reflect 3M Cordova website information; updated Site Map section (editorial changes), changed Figure references and included total impervious area information (acres and %) and reference to topo map. Updated significant materials to remove specific siting location (i.e. - tank #) of chemical storage and indicate more general site location. Editorial changes - standard tank location language, include reference to 25-yr, 24-hr storm (where applicable) and structural BMP language. Updated Storm Water Monitoring section to reflect revised permit conditions.	Permit effective 1/1/13
Mar-14	App 4	-		Added 2013 Quarterly Visual Inspections	
Mar-14	App 5	-		Updated inspection forms - WWT Daily Inspection	
Mar-14	App 5	-	Removed old storage tank inventory & above ground inspection form	Added copy of monthly site above ground tanks containment inspection PM (MPM6131); Quarterly visual inspection form	
Mar-14	4	All		Added section VII Storm Water Reduction; editorial changes	Permit effective 1/1/13
Mar-14	6	All		editorial changes; update annual inspection reporting and storm water sampling sections	Permit effective 1/1/13
Mar-14	0-3	-	Table of contents	Updated to reflect changes above	

K. H. Schmuck 3/20/14

February/March 2014 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Nov-12	App 6			Updated SWPPP Construction Permits	Closed Bldg 094 Project
Nov-12	App 6			Added NOT form and notification to IEPA	Closed Bldg 094 Project

Nov 2012 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Feb-13	App 3			Added 2012 Annual Report	
Feb-13	App 6			Removed 2007 Annual Report	Record Retention

Feb 2013 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Jul-13	3	38		Added Valve #132 to the Storm Valve Reference List	

Keith Schmuck 7/1/13

July 2013 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Nov-12	App 6			Updated SWPPP Construction Permits	Closed Bldg 094 Project
Nov-12	App 6			Added NOT form and notification to IEPA	Closed Bldg 094 Project

Keith Schmuck 11/2/12

Nov 2012 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Feb-13	App 3			Added 2012 Annual Report	
Feb-13	App 6			Removed 2007 Annual Report	Record Retention

Keith Schmuck 2-7-13

Feb 2013 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
May-12	3	38		Added Valve #131 to the Storm Valve Reference List	New Installation
May-12	3	18	Removed outdated Tank 26 reference	Updated Bldg 51 tank information	Review due to installation of new Bldg 51 tank
May-12	0	2			Removed documentation of change updates beyond 5 years old.

May 2012 revision reviewed by Keith Schmuck - Env. Engineer

Date	Section	Page	Change		Reason
			From	To	

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Aug-11	6	1		Combined with section 7	to eliminate redundancy
	1	1		Changed wording	to eliminate redundancy
	Appendix 6			Construction permits	To have them for reference
	3	2to 26	Significant materials	Materials listed alphabetically	More accessible
				significant updates to content list to reflect current	
	3			Added containment capacities in tank farm layout	
	3		4, 4'-Diphenylmethane Diisocyanate	removed	
				updated table of contents	
	3		Storm drain valves	Updated list adding several	
	table 3-1			updated values according to map CORD-888-C-911	

Aug 2011 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Dec-11	6	2 - 3		Revised Stormwater Sampling Reporting section to include typical pollutant summary table.	Audit Action Item
Jan-12	3	35		Included a revised drawing for CORD-888-C-911 and added CORD-888-911B.	Updated drawings to reflect 10 year and 100 year rainfall drainage maps
Jan-12	App 3			Removed 1997 through 2006	Record Retention Requirement

Jan. 2012 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
Feb-12	3	38		Added Valve #130 to the Sorm Vlave Reference List	New Installation

Feb 2012 revision reviewed by Keith Schmuck - Env. Engineer

Date	Section	Page	Change		Reason
			From	To	

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Aug. 2011 revision reviewed by Keith Schmuck - Env. Engineer

Documentation of Changes

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1/11/12

Jan. 2012 revision reviewed by Keith Schmuck - Env. Engineer

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	table 3-1			updated values according to map CORD-888-C-911	

Keith Schmuck 8/25/11

Aug. 2011 revision reviewed by Keith Schmuck - Env. Engineer

Date	Section	Page	Change		
			From	To	Reason
May-10	2	3	Number of 3P programs	Update to 290.	More programs since last update.
May-10	2	3	3P program description	Changed to corporate programs description	3P doesn't keep track of waste
May-10	2	6	Description of air permits	Updated to current Title V permit description	One Title V permit for the site.
May-10	3	2	Lime slurry	Dry lime and lime slurry.	Lime received dry now.
May-10	3	2	550 gallon polymer tank	Tank has been removed from service	Update tank storage.
May-10	3	19	Hazardous waste	Updated description of drum handling, stated tank is closed.	Update storage
May-10	3	20	Rail spurs	Added track 5 with its SPCC containment.	Update containment
May-10	3	26	Description of waste totes	Updated volume to 300 gallons per tote	Update reference
May-10	4	5	Employee training	Changed verb tense to reflect current practices	Update reference.
May-10	App 1		Note concerning waste solvent tank	Rewrote note to indicate tank closure.	Update tank storage.
May-10	App 1		Waste volume summary report	Reran the report for calendar year 2009.	Update reference.

Pat Sheller 5/24/10

May 10 revision completed by Pat Sheller - Env. Engineer

Documentation of Changes

Date	Section	Page	Change		Reason
			From	To	
2/8/2010	app 3	na	-----	2009 annual report	NPDES requirement
4/25/2011	app 3	na	-----	2010 annual report	NPDES requirement
2/1/2012	app 3	na	-----	2011 annual report	NPDES requirement
2/7/2013	app 3	na	-----	2012 annual report	NPDES requirement
3/13/2014	app 3	na	-----	2013 annual report	NPDES requirement
3/20/2014	app 4	na	-----	Q1 quarterly visual inspection report	NPDES requirement
6/26/2014	app 4	na	-----	Q2 quarterly visual inspection report	NPDES requirement
9/10/2014	app 4	na	-----	Q3 quarterly visual inspection report	NPDES requirement
12/19/2014	app 4	na	-----	Q4 quarterly visual inspection report	NPDES requirement
2/23/2015	app 3	na	-----	2014 annual report	NPDES requirement
3/12/2015	app 4	na	-----	Q1 quarterly visual inspection report	NPDES requirement
6/8/2015	app 4	na	-----	Q2 quarterly visual inspection report	NPDES requirement
9/10/2015	app 4	na	-----	Q3 quarterly visual inspection report	NPDES requirement
12/14/2015	app4	na	-----	Q4 quarterly visual inspection report	NPDES requirement
2/24/2016	app 3	na	-----	2015 annual report	NPDES requirement
3/15/2016	app 4	na	-----	Q1 quarterly visual inspection report	NPDES requirement
6/30/2016	app 4	na	-----	Q2 quarterly visual inspection report	NPDES requirement
9/7/2016	app 4	na	-----	Q3 quarterly visual inspection report	NPDES requirement
12/23/2016	app 4	na	-----	Q4 quarterly visual inspection report	NPDES requirement
2/23/2017	app 3	na	-----	2016 annual report	NPDES requirement

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Appendix

SECTION 1
OBJECTIVE

This is the Stormwater Pollution Prevention Plan (SWPPP) for the 3M Cordova Plant site. This document is intended to satisfy the requirements of the facility National Pollutant Discharge Elimination System (NPDES) permit, Illinois Environmental Protection Agency (IEPA) Permit No. IL0003140, Special Condition 12. The provisions of this SWPPP must be implemented as required by this permit detailed in Appendix 2. This plan identifies potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges associated with industrial activities at the facility. In addition, the plan describes the practices to be used to reduce the pollutants in stormwater discharges associated with industrial activity at the facility.

SECTION 2
ADMINISTRATIVE

PLAN REVIEW REQUIREMENTS

The plan will be retained onsite at the 3M Cordova Plant at all times during which the permit is in effect and will be made available to the Illinois Environmental Protection Agency (IEPA) or United States Environmental Protection Agency (USEPA) upon request. The SWPPP may also be made available to the public under Section 308(b) of the Clean Water Act (CWA) either by allowing viewing of the Plan at the facility or by making a copy of the Plan and sending it to the party making the request. 3M may claim any portion of the SWPPP as confidential in accordance with 40 Code of Federal Regulations (CFR) Part 2 and does not have to release any portion of the plan describing facility security measures.

STORMWATER POLLUTION PREVENTION TEAM

The Stormwater Pollution Prevention Team will consist of the following personnel titles:

EHS&R Manager
Environmental Engineer (assigned NPDES permit compliance responsibility)
Other site personnel (as deemed appropriate)

The responsibilities of the Stormwater Pollution Prevention Team shall include:

Development of the SWPPP;
Implementation and coordination of the SWPPP;
Performance evaluation and updates to the SWPPP on a periodic basis including whenever major changes in stormwater related activities occur.

RELATED PROGRAMS AND PERMITS

This SWPPP reflects the requirements of NPDES Permit No. IL0003140 and includes by reference the following:

3M Cordova Spill Prevention Control and Countermeasure Plan (SPCC)
3M Pollution Prevention Pays (3P) Program
3M Cordova Plant Emergency Response Red Book
3M Cordova Employee Training Program
3M Cordova Plant Standard Operating Procedures (SOPs),
3M Cordova Plant Preventive Maintenance Program (PMs),
3M Cordova Plant Clean Air Act permits (includes the Risk Management Plan)
3M Cordova Waste Management Program (includes the Hazardous Waste Contingency Plan)
3M Cordova Environmental, Health, Safety and Security Management Systems (includes Responsible Care®)

The requirements of these plans, permits and programs are incorporated by reference into this SWPPP. A summary description, including specific elements with the potential to impact storm water, are outlined below:

National Pollutant Discharge Elimination System (NPDES) Permit

Wastewater from the 3M Cordova plant is treated by an inorganic, organic or combined treatment process which includes equalization, neutralization, chemical precipitation, aeration and secondary clarification. Effluent is discharged through the designated NPDES permitted outfall in accordance with IEPA Permit No. IL 0003140.

Storm water from the facility process and non-process areas are inspected and discharged in accordance with IEPA Permit No. IL 0003140. Process buildings 3, 4, 23 and 20 (original cell and batch reactor building sections) roof drains are sent to the wastewater treatment plant. Process buildings 30, 73, and 20 (new cell and north west addition) roof drains are sent to the storm sewer to south ditch Outfall D (004). Secondary containment and storage areas are retained and inspected prior to discharge in accordance with Cordova Standard Operating Procedure (SOP) 1170.

SPCC Plan

The SPCC Plan designates a coordinator along with several alternates responsible for updating the SPCC, ensuring that SPCC training is carried out, consulting with emergency squad captains on spill containment and cleanup efforts in the event of a spill, and instructing the emergency squad captains on 24-hour spill notification procedures. The SPCC also lists the responsibilities of the emergency squad captains.

All oil storage facilities and areas with potential impact from a spill are discussed in detail in the SPCC Plan. The potential failures, the spill prevention procedures, inspection requirements, and leak detection procedures are discussed for each oil storage facility and area with potential impact from a spill. In addition, spill response and reporting procedures, facility security, and personnel training for these activities are also discussed. Intra-facility transfer is addressed along with the SOPs for tank car and truck loading and unloading. A facility map is included in the SPCC Plan which identifies each of the activities of concern. The SPCC is incorporated by reference into this SWPPP.

3M Pollution Prevention Pays (3P) Program

3M pioneered the concept of pollution prevention with the creation of the pollution prevention pays (3P) program in 1975. The 3P program is based on the reality that pollution prevention is more environmentally effective, technically sound and economical than conventional pollution control equipment. Natural resources, energy and money are used to build conventional pollution controls, and more resources are consumed operating them. Conventional controls are temporary and do not eliminate the problem. 3P seeks to eliminate pollution at the source through product reformulation, process modification, equipment redesign, and the recycling and reuse of waste materials.

3P is a key element of 3M Cordova's environmental strategy. Since 1976 through 2015, 3M Cordova has completed 460 3P projects which prevented more than 89,000 tons of pollution to the air, water, and land and has also saved approximately 94 million dollars since the first year of the projects.

3M Cordova Plant Emergency Response Red Book

The 3M Cordova Plant Emergency Response Red Book covers procedures for responses to emergencies occurring at the 3M Cordova Plant such as liquid or gas releases of hazardous substances.

Employee Training Program

Employee training consists of multiple phases including an on boarding process which focuses on the fundamentals of environmental, health, safety, and regulatory systems and compliance. Employees than progress through both formal and hands on training in their assigned job roles through their entire career at 3M. This training includes task specific training and certification as well general compliance training with specific environmental, safety, health, and regulatory training completed and reviewed on a regular basis per plant training matrix.

Training and review on standard operating procedures (SOPs) is provided to employees when an employee is assigned to a work area that involves those particular tasks. Employees are provided training on factory operating procedures (FOPs) when assigned to a particular process.

Required apprentice training programs are also in place for maintenance mechanics, electricians and Utilities personnel.

Certain training programs are directly related to spill issues. Training is provided to the appropriate employees in areas such as spill prevention, spill response, and spill notification.

All training is documented through hard copy and/or in the appropriate computer database. Various types of training include regulatory-mandated, employee certification manuals and apprenticeship training. See SOP-3002.

Standard Operating Procedures Program

There are two components of the SOP Program:

3M Cordova Standard Operating Procedures (SOPs); and

3M Cordova Facility Operating Procedures (FOPs)

Examples of SOPs on file at the Cordova plant are Process Safety Management and Hazardous Waste Operations and Emergency Response Plan (HAZWOPER).

The scope of the Process Safety Management procedure is to document the program elements used to:

Consult with employees on the development of various elements contained within the Occupational Safety and Health Act (OSHA) Process Safety Management Rule (29 CFR 1910.119); and

Provide employees with access to the information developed under this rule.

The scope of the HAZWOPER plan is to establish corrective actions involving cleanup operations of hazardous waste. This plan is used in conjunction with the Cordova Plant Emergency Response Plan.

Preventive Maintenance Program

The objective of the Preventive Maintenance program is to prevent equipment breakdowns by utilizing preventive, predictive, and corrective maintenance. Approximately 13% of the total manufacturing cost is spent on maintenance of plant equipment, and 85% of the maintenance is proactive repair as opposed to emergency repair. A Management of Change (MOC) procedure requires the evaluation of the safety and environmental impacts of any equipment modification prior to incorporating the modification.

Clean Air Act Permits

The plant Title V air permit includes emission limits and specifications for control unit operation to regulate air emissions. Many air emission points have controls to limit emissions. These controls and limits on air emissions also prevent material from coming in contact with stormwater.

Furthermore, the facility has prepared a Risk Management Plan resulting in additional steps to further minimize the release of materials to the environment.

Waste Management Program

3M practices waste minimization whenever practical to reduce the amount and hazards of waste materials generated. 3M is also dedicated to operating in accordance with all regulations and managing waste materials safely and responsibly. All 3M locations are required to manage all returned, recycled, and waste materials from the time of generation until reused, recycled, treated, or disposed.

The site waste management program further helps to ensure materials do not come in contact with storm water through inspection of hazardous waste storage areas and release prevention efforts.

Furthermore, a Hazardous Waste Contingency Plan has been prepared by the facility. The contingency plan details response plans, such as a spill, to minimize the impact to the environment.

Environmental, Health, Safety and Security Management Systems

3M Cordova's Responsible Care® Program, an initiative of the American Chemistry Council (ACC) is a commitment by member companies to operate facilities in a manner that protect the environment, health, safety and security of employees and the community. As a member of ACC, 3M is committed to the management practices that support Responsible Care®. 3M Cordova first received ISO 14001 certification in 2000 and RC14001 certification in 2010, and has continued to maintain these certifications on a three year frequency.

3M Cordova's EHS Management System promotes sound environmental, health, safety and security management. It helps us to manage the environmental footprint of our operations, drive sustainable growth, and address the expectations of our stakeholders. These stakeholders include our employees, customers, regulators, environmental groups, and the communities surrounding our plant.
Our EHS Management System:

- Includes an integrated, holistic system that anticipates and addresses long-term issues and drives continuous improvement.
- Promotes a strategic planning process that integrates EHS issues into business planning.
- Includes a process for identifying issues, developing formal action plans, setting goals and measuring results.

SECTION 3
SITE DESCRIPTION

INDUSTRIAL ACTIVITIES

3M Cordova is located in the northern section of Rock Island County at 22614 Route 84 North, Cordova, IL, 61242. The plant is located on the Mississippi River between Albany and Cordova, IL, approximately 25 miles north of the Iowa/ Illinois Quad Cities and 15 miles south of Clinton, IA. (Reference Figure 3-B)

Construction on 3M Cordova began in 1969 and production operations started in 1970. The plant rests on a total of 746 acres with manufacturing taking place on an approximate 100-acre triangular portion of the site near the river and west of Illinois Route 84. A high capacity, alluvial well field that supplies the 3M facility with process water is located on the 280-acre portion of the site located east of Illinois Route 84. Through 1999, the remainder of the property was used for land incorporation of sludge produced by the wastewater treatment plant. Currently, this property is not in use for industrial activity.

At 3M Cordova, we make a wide variety of specialty chemicals and adhesives. We blend, react, and purify hundreds of products using a wide variety of technologies throughout the plant. Ultimately, these products are used by other 3M manufacturing facilities or go into industrial, commercial, and consumer applications around the world for a broad range of customers. 3M Cordova is a high-tech, two-factory facility consisting of Electronic Materials and Internal Materials manufacturing. We supply products to over thirty divisions within 3M.

Here is a short list of the products made at our Cordova plant:

- Acrylate Monomers
- Acrylate Polymer Adhesives
- Solid and Liquid Epoxy Resins
- Low Adhesion Backsizes
- 3M™ Novec™ Engineered Fluids
- Performance Fluids
- Specialty Gases
- Battery Electrolytes
- 3M™ Novec™ 1230 Fire Protection Fluid

SITE MAP

Topographic maps of the 3M Cordova Plant are presented in Figures 3-D, 3-E, 3-F and 3-G. The maps show the items required under NPDES permit IL0003140, special condition 12, section E.2 including:

The storm water conveyance and discharge structures (Outfalls A, B, C, and D);

An outline of the storm water drainage areas for each storm water discharge point;

Paved areas and buildings;

Location of existing storm water structural control measures;

Surface water locations and storm drain locations;

Areas of potential and existing soil erosion; and

Vehicle service areas.

Approximately 81 acres of the total 746 acres or 11 percent of the site has impervious areas such as pavement or buildings. A more detailed table of sub-watershed information is included on the Figure 3-D topographical map.

ONSITE STORAGE, HANDLING, AND DISPOSAL OF SIGNIFICANT MATERIALS

3M Cordova uses materials on site for production purposes. Materials are handled in several key locations, summarized below. Above ground and underground tank contents are identified in Table 3-1.

North Tank Farm – Above Ground Tanks

The aboveground storage tanks within the North Tank Farm are located in concrete containment areas with a volume greater than the volume of any single tank plus a 25-year, 24-hour storm. The drain is equipped with a valve that remains closed to prevent spills from entering the sewer and to allow inspection of collected storm water prior to discharge. Drainage piping leads to a diversion pit and in turn can be directed to the process sewer for treatment or the storm sewer. Storm drainage piping leads to the storm water Outfall 004 (Outfall D).

Building 3 Above Ground Tanks

Above ground tanks are located north of Building 3. Steel walls and a concrete floor surround each above ground tank. The volume of the secondary containment is greater than the volume of the tank. The diked containment areas do not drain, which prevents spills from entering storm sewers and allows for inspection of collected storm water prior to pumping and discharge. Drainage surrounding the containments drains to storm water Outfall 004 (Outfall D).

Building 3 Above Ground Tank Farm

Located west of Building 3, the Building 3 Above Ground Tank Farm contains above ground storage tanks in a concrete containment area with a volume greater than the volume of any single tank plus a 25-year, 24-hour storm. This area is drained only to the chemical sewer. The drain is equipped with a valve that remains closed to prevent spills from entering the sewer and to allow inspection of collected storm water prior to discharge.

Building 20 Above Ground Tanks

The Building 20 Above Ground tanks are located north of Building 20. The above ground tanks are surrounded by concrete secondary containment sufficient to contain storm water from a 25-year, 24-hour storm. The drains are equipped with valves that remain closed to prevent spills from entering the sewer and to allow inspection of collected storm water prior to discharge. Drainage piping leads to a diversion pit and in turn can be directed to the process sewer for treatment or the storm sewer. Storm drainage piping leads to storm water Outfall 004 (Outfall D).

Building 23 Above Ground Tank

Located south of Building 23, the Building 23 Above Ground Tank contains an above ground storage tank in a concrete containment area with a volume greater than the volume of the tank plus a 25-year, 24-hour storm. This area is drained only to the chemical sewer. The drain is equipped with a valve that remains closed to prevent spills from entering the sewer and to allow inspection of collected storm water prior to discharge.

Building 23 Underground Storage Tanks

Seven underground storage tanks are located east of Building 23. The underground storage tanks are equipped with cathodic protection and interstitial leak detection probes. In addition, the tanks are covered under the IL Office of the State Fire Marshall Underground Storage Tank regulations. A concrete area with secondary containment is located on top of the tank in order to contain any spills or leaks from the above ground pipe connections and pumps. Drainage piping leads to storm water Outfall 004 (Outfall D).

Buildings 40 and 73

Anhydrous and aqueous HF is stored on site to facilitate production demand. Engineering controls including secondary containment and administrative controls are utilized to prevent storm water exposure.

Buildings 41 and 56

Above ground storage tanks are located in building 41 and building 56. The buildings serve as secondary containment and are drained only to the chemical sewer.

Wastewater Treatment Above Ground Tanks

Dry lime (Calcium Hydroxide) is stored in a silo west of Building 51 and used to produce the lime slurry (Liquid Calcium Hydroxide) referenced below.

Lime slurry is stored in tanks located southwest of building 51 (51 lime tank) and east of building 57 (57 lime tank). The 51 lime tank does not have secondary containment. The 57 lime tank has a concrete containment area with a volume greater than the volume of the tank. The drains are equipped with valves that remain closed to prevent spills from entering the storm sewer and to allow inspection of collected storm water prior to discharge. Drainage piping leads to storm water Outfall 003 (Outfall C).

Calcium Chloride is stored in a tank located east of building 57. The above ground tank has a coated concrete containment area with a volume greater than the volume of the tank. There is concrete truck unloading containment area in case of a possible spill during transfer. The drains are equipped with valves that remain closed to prevent spills from entering the sewer and to allow inspection of collected

storm water prior to discharge. Drainage piping discharges to the waste water treatment stabilization ponds (Outfall A01).

93% Sulfuric Acid is stored in tanks south of Building 51 (Building 51-Sulfuric tank) and east of Building 57 (Building 57-Sulfuric tank) in the Waste Water Treatment area. The Building 51 Sulfuric tank is a double-walled tank with overfill and leak detection systems. Overfill piping diverts to the inorganic treatment system (Mag Aeration Tank). The Building 57 Sulfuric tank has secondary containment and a concrete truck unloading area with a drain that remains closed to prevent spills. The secondary containment volume is greater than the volume of the tank. The diked containment area drains are equipped with valves that remain closed to prevent spills and to allow inspection of collected stormwater, which is then disposed of in accordance with plant procedure.

Hazardous Wastes

Hazardous wastes generated during the manufacturing process are packaged in 55-gallon drums, Intermediate Bulk Containers (IBC's) and bulk trailers. Drums are stored outside briefly on a concrete pad with secondary containment prior to being moved to the indoor waste storage room in the warehouse. IBC's are stored in outdoor storage areas with secondary containment until the contents are transferred to bulk trailers. Hazardous waste is stored at these sites until removed from the facility for incineration, recycling, reclamation, or disposal. A list of the potential materials stored in the Drum and IBC Storage Areas are presented in Appendix 1. The former above ground hazardous waste tank has been removed from service and closed. Storm water collected in these areas is inspected prior to discharge.

Propane Gas (LP)

Propane gas is used for running engines in remote areas on the plant site. Propane is stored as a liquid under pressure. The tanks are not in a secondary containment area.

Sludge Incorporation Areas

Sludge incorporation areas (SIAs) are located in non-process areas of the plant property. These areas were used up until 1999 for disposal of non-toxic sludge with bases of iron oxide and aerobic sludge. The affected areas were Sub-watershed E and Sub-watershed D at the junction of the roadway encompassing the SIAs and Highway 84. All storm water from the SIAs is absorbed into the ground.

Wastewater Treatment Facility

The wastewater treatment facility is equipped to treat manufacturing process waste water and storm water including roof runoff and storm water from collection areas.

The production buildings discharge process effluent through dedicated piping within a secondary containment trench to the wastewater treatment plant. Treated wastewater is discharged under NPDES Permit No. IL 0003140 to the Mississippi River.

In the past, sludge produced by the organic and inorganic treatment systems was held onsite and applied to designated areas on the facility property after testing. This sludge application was discontinued in 1999. Currently, all sludge produced by the wastewater treatment process is dewatered on-site then shipped to an appropriate disposal facility.

Building 3 Dry Material Storage Silo

Dry material is stored in a silo located to the southwest of Building 3. This area does not have secondary containment. Storm water drains to storm water Outfall 004 (Outfall D).

Building 3 Dry Material Handling Area

A dry material handling area is located west of the northwest corner of Building 3. This area does not have secondary containment. Storm water drains to storm water Outfall 004 (Outfall D).

General Purpose Blowdown Tanks

Tanks located North of Building 20 and in Building 56 are designated as general purpose blowdown tanks. These above ground tanks are surrounded by secondary containment. The containment volume is sufficient to contain the largest tank plus the 25-year, 24-hour storm.

Lawn Maintenance Chemicals

Pesticides and herbicides are applied per manufacturer recommendation on the lawn areas within the manufacturing section of the property. Herbicides are used on some farm sections of the facility property.

Railcar Loading/Unloading Areas

All rail cars are off-loaded from the top to reduce the potential for spills. Several rail car loading/unloading areas are located throughout the plant site. They are as follows:

Mag Rail Spur

The Mag rail spur is used for staging only.

Lower Rail Spur (Track 2)

Rail car unloading of a powder material occurs along one station of the lower rail spur east of Building 5. Loading/unloading in this area does not have secondary containment.

Lower Rail Spur (Track 3)

Rail car unloading of liquid materials occurs along two stations of the lower rail spur east of Building 5. Loading/unloading in this area does not have secondary containment. However, the pumps are in a concrete containment area. The valve for the pump containment remains closed to allow inspection of collected storm water prior to discharge.

Upper Rail Spur (Track 4)

Loading/unloading in this area does not have secondary containment. However, the pumps are in a concrete containment area. The valve for the pump containment remains closed to allow inspection of collected storm water prior to discharge.

Upper Rail Spur (Track 5)

Loading/unloading activities occur in an area which drains to secondary containment. The valve for this large emergency containment remains closed to allow inspection of collected storm water. The pumps are in a concrete containment area. The valve for this containment remains closed to allow inspection of collected storm water prior to discharge. Additional detail can be located in the site SPCC plan.

Truck Trailer Loading/Unloading Areas

Materials received by truck trailer are unloaded at a designated loading/unloading area; most of these areas have concrete secondary containment. Several truck trailer loading/unloading areas are located throughout the plant site. They are as follows:

Building 2

Truck trailer loading/unloading of waste and packaged materials occurs south of Building 2. Each door is outfitted with a concrete pad. A truck trailer loading/unloading area is also located east of the building. This area has a concrete pad and storm sewer gates to control any spills. The gates are closed except during monitored storm water draining. This area is contained to prevent pollution of the surrounding area.

Building 3 East dock

The solid waste collection system sits on concrete pad. The collected storm water goes to storm water Outfall 004 (Outfall D). Under normal conditions, the gate valves are closed.

Building 3 North Loading/Unloading Areas (16 & 22)

Truck trailer loading/unloading occurs on concrete in a curbed area. The entire station and process is covered with awning. Drainage piping leads to a diversion pit and in turn can be directed to the process sewer for treatment or the storm sewer. Storm drainage piping leads to storm water Outfall 004 (Outfall D).

Building 4

This loading/unloading area is located north of Building 4. Drums are stored on wooden pallets laid on concrete padding. The collected stormwater goes to the area east of Building 4. Under normal conditions the gate valves are closed.

Building 5

Truck trailer loading/unloading occurs east of Building 5. This area has a concrete pad and storm sewer gates to control any spills. The gates are closed except during monitored storm water draining.

Building 15 (not in service)

This building with a concrete pad sits north of building 3. It was previously used for drumming chemicals. The drains are equipped with valves that remain closed to prevent spills from entering the sewer and to allow inspection of collected storm water prior to discharge. Drainage piping leads to a diversion pit and in turn can be directed to the process sewer for treatment or the storm sewer. Storm drainage piping leads to the storm water Outfall 004 (Outfall D).

Building 18

This area is used for loading scrap solvents onto vendor trucks for disposal. There is a concrete containment for the truck loading. This area is also a designated 90-day storage area.

Building 20 West and North

Transfer activities at the loading/unloading areas to the west and north of Building 20 occur in concrete truck containment. The drains are equipped with valves that remain closed to prevent spills from entering the storm sewer and to allow inspection of collected storm water prior to discharge. Drainage piping leads to a diversion pit and in turn can be directed to the process sewer for treatment or the storm sewer. Storm drainage piping leads to storm water Outfall 004 (Outfall D).

Building 20 East

The docking area east of Building 20 is concrete and blacktop. Drums and canisters are located here. The collected storm water goes to storm water Outfall 004 (Outfall D). Southeast of Building 20 there are two ISO loading/unloading bays. This area is a secondary concrete containment area.

Building 21

The truck trailer loading/unloading area is North of Building 21. This area has a concrete containment with gated drainage to a gravel base. The drains are equipped with valves that remain closed to prevent spills from contacting storm water and to allow inspection of collected storm water prior to discharge.

Building 23

Drummed material is staged on the West loading/unloading area of Building 23. This area is covered and. has a concrete containment that drains to storm water Outfall 004 (Outfall D). The North loading/unloading area in conjunction with building 20 is contained and drains to waste treatment. The drains are equipped with valves that remain closed to prevent spills from contacting storm water and to allow inspection of collected storm water prior to discharge.
The South of building 23 is a staging area for the elevator.

Building 36

A process loading/unloading area is located to the east of Building 3. The loading/unloading area is covered and contains a grated drain that goes to the chemical sewer.

Building 39

Buildings 20 and 23 use these two covered loading/unloading station. The truck loading/unloading area has a concrete containment that drains to the waste treatment area. The drains are equipped with valves that remain closed to prevent spills from contacting storm water and to allow inspection of collected storm water prior to discharge.

Building 44

These four covered loading/unloading stations sit west of building 20. The drains are equipped with valves that remain closed to prevent spills from entering the storm sewer and to allow inspection of collected storm water prior to discharge. Drainage piping leads to a diversion pit and in turn can be directed to the process sewer for treatment or the storm sewer. Storm drainage piping leads to storm water Outfall 004 (Outfall D).

Building 65

This bulk loading/unloading area is completely covered and has concrete containment. It has a sump pit that pumps to the chemical sewer.

Product and Raw Material Drum Storage Areas

Drums and Intermediate Bulk Containers (IBC's) are located in holding areas throughout the plant. Raw materials are packaged in these containers and are placed adjacent to process areas until removed or disposed of properly. Full drums and IBCs are stored on concrete pads.

Building 2

Raw materials are stored in the building. This area has concrete floors and drains to the waste treatment plant.

Building 3

The North drum holding area is a concrete pad located in the vicinity of the pipe rack. The East drum holding area is a concrete pad and includes IBC storage. The South area is temporary staging of drums and product going to and coming from the building.

Building 23

Drums and IBCs are stored on concrete south of Building 23 in the vicinity of the Building 23 Underground Tank farm (UGTF).

DESCRIPTION OF STORMWATER CONTROL SYSTEM

Structural Control Measures

The structural controls found in the drainage area of Outfall A include indoor storage of chemicals, containment for loading/unloading areas, indoor unloading, and containment for a drum storage area. The structural controls found in the drainage area of Outfall B include indoor storage of hazardous waste and raw materials and a gated structure that is closed to contain spills or contaminated storm water to allow transfer to the wastewater treatment plant, if necessary. Also, those 55 gallon drums containing hazardous waste, which are stored outdoors, are kept on a concrete pad with secondary containment. Stormwater that collects in the containment area is retained and inspected prior to discharge. This area is monitored daily. The gate to Outfall B is not opened or used to discharge storm water.

The structural controls found in the drainage area of Outfall C include a gated structure that is closed to contain spills or contaminated stormwater to allow transfer to the wastewater treatment plant, if necessary. This area is monitored daily. The wastewater treatment facility's 4 Equalization tanks have leak detection sumps and the sludge holding basins have concrete containment. An area for 55 gallon drums and 300 gallon totes containing hazardous waste, which are stored outdoors, are kept on a concrete pad with secondary containment. Stormwater that collects in the containment area is drained to the waste treatment plant.

The structural controls found in the drainage area of Outfall D include indoor storage of hazardous waste and raw materials and a gated structure that is closed to contain spills or contaminated stormwater to allow transfer to the wastewater treatment plant, if necessary. This area is monitored daily. Additionally, concrete and concrete/steel containment is provided for above ground and underground storage tanks. The roof drains for most of the manufacturing buildings are connected to the wastewater treatment plant. Paved parking and curbed roadways provide containment and drainage for most bulk loading and unloading areas.

Non-Structural Control Measures

Employee training, preventive maintenance, good housekeeping, pollution prevention, and inspections serve as non-structural control measures for all Outfalls at the 3M Cordova site. There are several procedures documented in SOP's, FOP's, and Operating Manuals for loading and unloading tank trailers and railcars.

Minimization of Stormwater Contact with Contaminants

The 3M Cordova Plant has taken several steps to minimize the discharge of contaminants in stormwater. Most of the above ground storage tanks are surrounded by secondary containment. The drains from the containment areas have valves that can be opened and closed manually. The valves are closed in order to retain the stormwater for inspection prior to discharge. The Building 20 tank farm containment and loading/unloading areas feed to either the chemical sewer or Outfall "D" according to test results. The containments for Building 23 above the underground tank farms (UGTFs) drain over gravel to the storm sewers. The West (new) above ground tank farm containment for Building 3 drains to the waste treatment plant. The drainage from the North above ground farm dikes can be diverted to either the wastewater treatment plant or the storm sewer (after inspection and testing). Stormwater runoff from the manufacturing buildings flows into the wastewater treatment plant. Stormwater sent to the wastewater treatment plant passes through a secondary treatment plant (biological) system to remove contaminates. Stormwater sent to the storm ditches flows through concrete piping to the stormwater ditches. The stormwater ditches terminate in concrete structures with valves and piping opening to the Mississippi River. The valves are kept closed at all times except to release stormwater to the river after inspection and testing. The plant supervisors record the opening and closing of these valves and the log sheets are kept for reference. The water in the ditches can be pumped and trucked to the wastewater treatment plant, if contaminated. This provides a second checkpoint for stormwater prior to discharge into the Mississippi River.

All storage tanks are constructed of materials compatible with the tank contents, and most above ground storage tanks have secondary containment with containment volume greater than the volume of the largest tank contained plus the 25-year, 24-hour storm. All underground storage tanks in use are equipped with cathodic protection and secondary leak detection systems. In addition, these tanks are covered under the Illinois Office of the State Fire Marshal Underground Storage Tank regulations.

Many storm drains along the roadways are protected by curbs and gates designed to prevent spills from getting into the storm sewer ditches. Additionally, all storm drains onsite are fed into outlet pipes that have closed valves to prevent spills from getting into the waterway. Containment in excess of the roadway containment is provided in sub-watersheds C & D that contains the plant site.

All pipe supports have been properly designed to minimize abrasion and corrosion and to allow for expansion and contraction. Above ground pipelines and valves are inspected on a scheduled basis. Containing and cleaning up spills is our highest priority to minimize contaminants discharged to the storm drains. The spill containment, cleanup, notification, and reporting procedures for the 3M Cordova Plant can be found in the 3M Emergency Response "Red Book" SOP's. The location and usage of cleanup equipment can be found in the SPCC Plan.

STORM WATER MONITORING

IEPA NPDES Permit No. IL0003140, Special Condition 12 requires storm water monitoring for Outfalls 002, 003, and 004 (outfalls A, C, and D). Storm water monitoring is conducted both quarterly and annually in accordance with the permit requirements. The requirements of NPDES permit no. IL0003140 are detailed in Appendix 2. The results of the storm water monitoring events are kept with the Discharge Monitoring Reports located at the desk of the Environmental Engineer assigned NPDES responsibility or in the Environmental Files located in Building 1. The results from quarterly visual observation of the storm water discharges are located in Appendix 4.

Table 3-1

Tank List

Reference: Ci-common\Enviro\Tanks\Cordova Tanks Current.xlsx

Table 3-1: Cordova Storage Tank Data

Last Revised: 4/6/2017

Cordova Eng. Number	Cordova T.F. Number	Max Capacity (1,000s of gallons)	Contents/Material	Location
0101-A-32	TF-30	500	Firewater	Above Ground Tanks - North Tank Farm
0101-A-48	TF-31	200	Fuel Oil	Above Ground Tanks - North Tank Farm
0101-A-07	TF-32	50	MEK	Above Ground Tanks - North Tank Farm
0101-A-09	TF-33	50	Toluene	Above Ground Tanks - North Tank Farm
0101-A-11	TF-34	50	Ethyl Acetate	Above Ground Tanks - North Tank Farm
0101-A-05	TF-35	50	Isooctyl acrylate	Above Ground Tanks - North Tank Farm
0101-A-03	TF-36	50	Isooctyl acrylate	Above Ground Tanks - North Tank Farm
0101-A-01	TF-37	50	Isooctyl alcohol	Above Ground Tanks - North Tank Farm
0101-A-13	TF-38	50	Heptane	Above Ground Tanks - North Tank Farm
0101-A-15	TF-39	50	Isooctyl Alcohol	Above Ground Tanks - North Tank Farm
0101-A-17	TF-40	50	Acetone	Above Ground Tanks - North Tank Farm
0101-A-19	TF-41	50	Isopropanol (IPA)	Above Ground Tanks - North Tank Farm
0101-A-21	TF-42	50	Empty	Above Ground Tanks - North Tank Farm
0101-A-26	TF-43	50	Xylene	Above Ground Tanks - North Tank Farm
0101-A-28	TF-44	50	High Solids HPS	Above Ground Tanks - North Tank Farm
0101-A-29	TF-45	100	Isooctyl Acrylate (IOA)	Above Ground Tanks - North Tank Farm
0101-A-30	TF-46	50	Acrylic Acid Modified Glacial	Above Ground Tanks - North Tank Farm
0101-A-39	TF-49	50	Methanol	Above Ground Tanks - North Tank Farm
0102-A-05	TF-12	25	Caustic	Above Ground Tanks - Building 3
0102-A-28/0398-A-28	TF-13	25	DPRA	Above Ground Tanks - Building 3
0102-A-11	TF-14	18	DTO Mother Liquor	Above Ground Tanks - Building 3
0102-A-03A	TF-26	6	Out of service	Above Ground Tanks - Building 3
0102-A-01	TF-27	30	Acetic Anhydride	Above Ground Tanks - Building 3
0102-A-04	TF-28	30	Out of service	Above Ground Tanks - Building 3
0102-A-06	TF-29	25	50% KOH	Above Ground Tanks - Building 3
0102-A-16	TF-47	50	Super Seximer/Acrylate Polymer	Above Ground Tanks - Building 3
0102-A-32/0398-A-32	TF-48	18	2-Octanol	Above Ground Tanks - Building 3
0303-A-11	TF-50 (Roof)	6	Out of service	Above Ground Tanks - Building 3
0398-A-35	TF-51	77	BPA	Above Ground Tanks - Building 3
0398-A-37	TF-37	1	Anhydrous Ammonia	Above Ground Tanks - Building 3
0103-A-01	AGT1	20	M-B-Alcohol	Above Ground Tank Farm - Building 3
0103-A-02	AGT2	20	Acrylate Polymer Solution	Above Ground Tank Farm - Building 3
0103-A-03	AGT3	20	Reclaimed Ethyl Acetate	Above Ground Tank Farm - Building 3

Cordova Eng. Number	Cordova T.F. Number	Max Capacity (1,000s of gallons)	Contents/Material	Location
0103-A-04	AGT4	30	Stain Release	Above Ground Tank Farm - Building 3
0103-A-05	AGT5	20	Methacrylic Acid	Above Ground Tank Farm - Building 3
0103-A-06	AGT6	20	Acrylate Polymer Solution	Above Ground Tank Farm - Building 3
0103-A-08	AGT8	20	Acrylate Polymer	Above Ground Tank Farm - Building 3
0103-A-09	AGT9	20	2-Octyl Acrylate	Above Ground Tank Farm - Building 3
0103-A-10	AGT10	30	343M Epoxy Resin	Above Ground Tank Farm - Building 3
0103-A-11	AGT11	20	2-EHA	Above Ground Tank Farm - Building 3
0103-A-12	AGT12	30	343M Epoxy Resin	Above Ground Tank Farm - Building 3
0103-A-13	AGT13	20	Formaldehyde (37%)	Above Ground Tank Farm - Building 3
0103-A-14	AGT14	30	HPS	Above Ground Tank Farm - Building 3
0103-A-15	AGT15	20	M-B-Acrylate	Above Ground Tank Farm - Building 3
0103-A-16	AGT16	20	HPS	Above Ground Tank Farm - Building 3
2098-A-01	20-1	30	Blowdown tank for anhydrous HF	Above Ground Tanks - Building 20
2098-A-02	20-2	20	Unrecovered Diglyme	Above Ground Tanks - Building 20
2098-A-03	20-3	50	Caustic Solution	Above Ground Tanks - Building 20
2098-A-04	20-4	4	Fractionated HMI HBs	Above Ground Tanks - Building 20
2098-A-05	20-5	4	PTAA Fractionated Crude	Above Ground Tanks - Building 20
2098-A-06	20-6	4	Ethyl Nonafluoro (I-/n-) Butyl Ether (ethyl perfluorobutyl ether HFE7200)	Above Ground Tanks - Building 20
2098-A-07	20-7	4	Perfluorochemical Inert Hydride Mixture	Above Ground Tanks - Building 20
2098-A-08	20-8	10	Perfluorohexane crude fractionation	Above Ground Tanks - Building 20
2098-A-09	20-9	10	Potassium Hydroxide	Above Ground Tanks - Building 20
2098-A-13	20-13	6.2	Perfluorochemical Inert Liquid	Above Ground Tanks - Building 20
2098-A-14	20-14	6.2	C3F8 Cell Run High Boilers	Above Ground Tanks - Building 20
2098-A-15	20-15	6.2	Hydrofluorobutyroyl Fluoride	Above Ground Tanks - Building 20
2098-A-16	20-16	6.2	Ethyl Perfluorobutyl Ether	Above Ground Tanks - Building 20
2098-A-17	20-17	18	Frctionated PTBA cell crude	Above Ground Tanks - Building 20
2098-A-18	20-18	18	FLD04424 BLK PTBA (43) Fractionation	Above Ground Tanks - Building 20
2098-A-19	20-19	18	Low HFP Dimer Crude C6 Ketone	Above Ground Tanks - Building 20
2098-A-20B	20-20	18	Blowdown tank	Above Ground Tanks - Building 20
2098-A-21	20-21	18	Fractionated Perfluoro-2-Methyl-3-Pentanone	Above Ground Tanks - Building 20
2098-A-22	20-22	18	Diglyme/Water from HFE Salt Waste	Above Ground Tanks - Building 20

Cordova Eng. Number	Cordova T.F. Number	Max Capacity (1,000s of gallons)	Contents/Material	Location
2098-A-25	20-25	30	Perfluorochemical Inert Hydride Mixture	Above Ground Tanks - Building 20
2098-A-26	20-26	30	Diethylene Glycol Dimethyl Ether (diglyme / water)	Above Ground Tanks - Building 20
2098-A-27	20-27	15	EMPTY	Above Ground Tanks - Building 20
2098-A-28	20-28	15	Organic to Building 30	Above Ground Tanks - Building 20
2098-A-29	20-29	15	Building 20 Organic	Above Ground Tanks - Building 20
2098-A-30	20-30	15	Propionic Anhydride	Above Ground Tanks - Building 20
2098-A-32	20-32	15	Perfluoromethane Sulfonyl Fluoride	Above Ground Tanks - Building 20
2098-A-33	20-33	25	Blowdown Tank	Above Ground Tanks - Building 20
2098-A-34	20-34	25	Methyl Perfluoro Butyl Ether	Above Ground Tanks - Building 20
2098-A-35	20-35	15	Dimethyl Sulphate (DMS)	Above Ground Tanks - Building 20
2098-A-36	20-36	25	Isobutyric Anhydride (Butyric anhydride)	Above Ground Tanks - Building 20
2098-A-37	20-37	15	Diethyl Sulfate (DES)	Above Ground Tanks - Building 20
2098-A-38	20-38	15	Methyl Perfluoro Butyl Ether	Above Ground Tanks - Building 20
2098-A-47	20-47	19	Perfluoropropane	Above Ground Tanks - Building 20
Tank north of 61	N/A	50	Out of service	Above Ground Tanks - Building 20
2304-A-01	52	20	Distilled IOA	Above Ground Tank - Building 23
2398-A-01	23-1	30	IOA Solution Polymer	Underground Tanks - Building 23
2398-A-02	23-2	30	Crude IOA	Underground Tanks - Building 23
2398-A-03	23-3	30	Acrylate Polymer Solution	Underground Tanks - Building 23
2398-A-04	23-4	30	High Solids DS-4 Adhesive	Underground Tanks - Building 23
2398-A-05	23-5	30	IOA Solution Polymer	Underground Tanks - Building 23
2398-A-06	23-6	30	Repulpable Adhesive	Underground Tanks - Building 23
2398-A-07	23-7	30	Glacial Grade Acrylic Acid	Underground Tanks - Building 23
4000-A-01	40-1	30	Anhydrous HF	Building 40 Inside Storage Tank
4101-A-01	41-1	10	HF from Perfluoroalkanes	Building 41 Inside Storage Tank
4101-A-02	41-2	10	HF Intermediate	Building 41 Inside Storage Tank
4101-A-03	41-3	10	Perfluoro-N-Butyl Fluoride	Building 41 Inside Storage Tank
4101-A-04	41-4	10	HF Intermediate	Building 41 Inside Storage Tank
5601-A-1	56-1	10	HF Intermediate (electrolyte)	Building 56 Inside Storage Tank
5601-A-2	56-2	10	Acid Fluoride	Building 56 Inside Storage Tank
5601-A-3	56-3	10	Hydrofluorobutyroyl Fluoride (high boilers)	Building 56 Inside Storage Tank
5601-A-4	56-4	10	HF Intermediate (electrolyte)	Building 56 Inside Storage Tank
5601-A-5	56-5	10	HF from Perfluoroalkanes (recovered electrolyte)	Building 56 Inside Storage Tank
5601-A-6	56-6	10	Acid Fluoride	Building 56 Inside Storage Tank
5601-A-7	56-7	10	Fractionated C3 Acid Fluoride	Building 56 Inside Storage Tank
5601-A-8	56-8	10	Fractionated C3 Acid Fluoride	Building 56 Inside Storage Tank

Cordova Eng. Number	Cordova T.F. Number	Max Capacity (1,000s of gallons)	Contents/Material	Location
56-98-A-1	56-9	10	Methyl Perfluoro Butyl Ether	Building 56 Inside Storage Tank
56-98-A-4	56-12	10	Methyl Perfluoro Butyl Ether	Building 56 Inside Storage Tank
56-98-A-7	56-15	10	Methyl Perfluoro Butyl Ether	Building 56 Inside Storage Tank
56-98-A-7	56-15		HFE7500 crude	Building 56 Inside Storage Tank
56-98-A-11	Blowdown Tk	10	Blowdown tank	Building 56 Inside Storage Tank
56-98-A-3	56-11	10.519	Crude Products (C3 or C4 acid fluoride; PTBA short term)	Building 56 Inside Storage Tank
56-98-A-6	56-14	10.519	Crude Products (C3 or C4 acid fluoride)	Building 56 Inside Storage Tank
56-98-A-2	56-10	17.115	Electrolyte (depends on what's in cell system)	Building 56 Inside Storage Tank
56-98-A-5	56-13	17.115	Electrolyte (depends on what's in cell system)	Building 56 Inside Storage Tank
56-98-A-8	56-16	17.115	Electrolyte (depends on what's in cell system)	Building 56 Inside Storage Tank
73-98-A-5	73-5	50	HF Intermediate	Building 73 Outside Storage Tank
73-98-A-6	73-6	50	HF Intermediate	Building 73 Outside Storage Tank
73-98-A-7	73-7	50	HF Intermediate	Building 73 Outside Storage Tank
73-98-A-1	IBA Tank	15	DMDS	Building 73 Outside Storage Tank
73-98-A-2	IBF Tank	10	Methyl Ester	Building 73 Outside Storage Tank
09999515 (OSFM Tank ID = 36)	999-Z-99	1	Fuel 1 (gas)	Wastewater Treatment and Utilities
09999515 (OSFM Tank ID = 37)	999-Z-100	1	Fuel 2 (diesel)	Wastewater Treatment and Utilities
05100111	999-Z-99	5.4	Sulfuric Acid	Wastewater Treatment and Utilities
05700106	999-Z-99	8	Sulfuric Acid	Wastewater Treatment and Utilities
01414151	999-Z-99	4.5	Phosphoric Acid	Wastewater Treatment and Utilities
01414149	999-Z-99	30	25% Lime slurry	Wastewater Treatment and Utilities
06200101	999-Z-99	50	25% Lime slurry	Wastewater Treatment and Utilities
57-0-A-15	999-Z-99 / 12-2467-2015-0	4.49	Hydrated Lime (Dry bulk)	Wastewater Treatment and Utilities
57-0-A-10	999-Z-99 / 57-0-A-10	10	Calcium Chloride	Wastewater Treatment and Utilities
05500002	999-Z-99	11	Liquid Oxygen	Wastewater Treatment and Utilities
-	999-Z-99	11	Liquid Nitrogen (3 tanks)	Wastewater Treatment and Utilities
05500104	999-Z-99	1.5	Nalco 71D5	Wastewater Treatment and Utilities
Mag EQ tank	HFE Salt/Mag Eq tank		Aqueous waste	Wastewater Treatment and Utilities
			Ferric Chloride	Wastewater Treatment and Utilities

Figure 3-A

Tank Farm Layout
Containment Volumes

CORDOVA ABOVE GROUND TANKS – NORTH TANK FARM

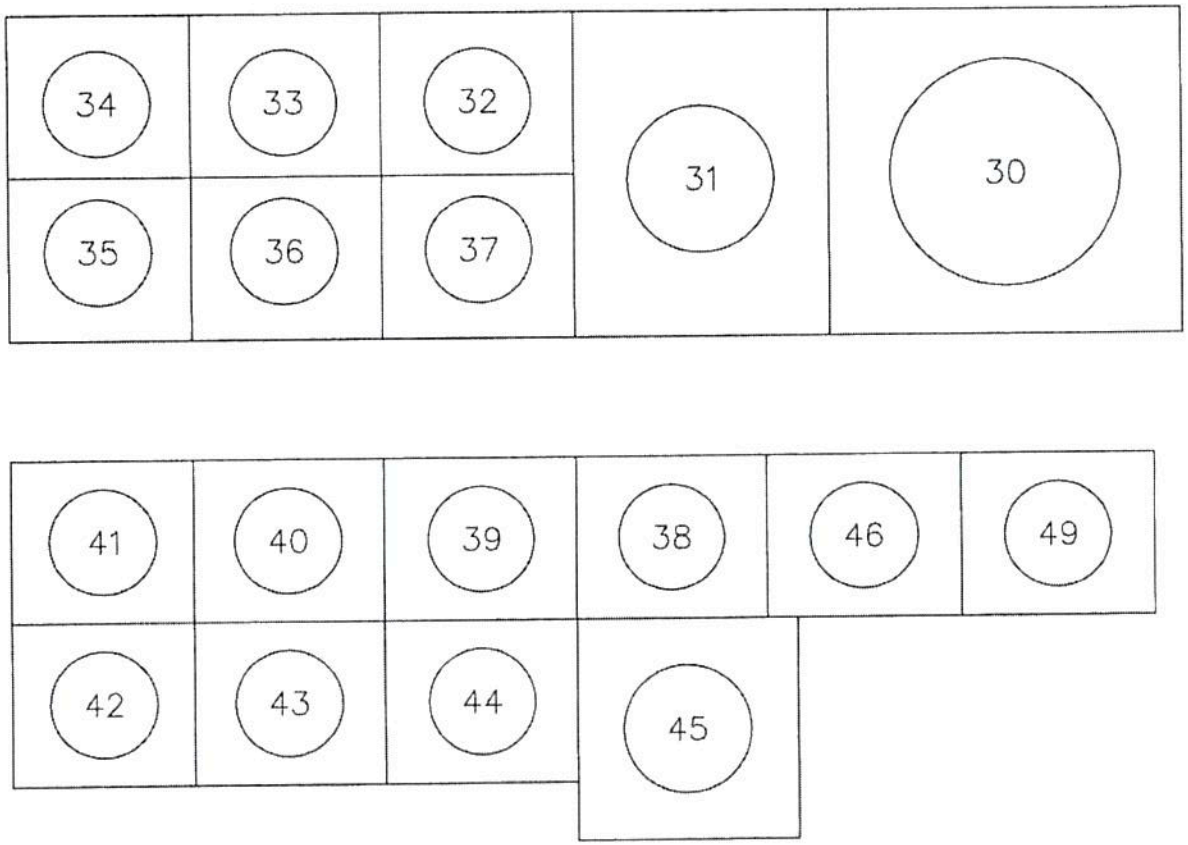
N

CONFIDENTIAL

NORTH ABOVE GROUND TANK FARM

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
0101-A-01	TF-37	50	*55	F
0101-A-03	TF-36	50	*55	F
0101-A-05	TF-35	50	*55	F
0101-A-07	TF-32	50	*55	F
0101-A-09	TF-33	50	*55	F
0101-A-11	TF-34	50	*55	F
0101-A-13	TF-38	50	*55	F
0101-A-15	TF-39	50	*55	F
0101-A-17	TF-40	50	*55	F
0101-A-19	TF-41	50	*55	F
0101-A-21	TF-42	50	*55	F
0101-A-26	TF-43	50	*55	F
0101-A-28	TF-44	50	*55	F
0101-A-29	TF-45	100	135	F
0101-A-30	TF-46	50	*55	F
0101-A-32	TF-30	500	NA water	F
0101-A-39	TF-49	50	*55	F
0101-A-48	TF-31	200	207	F

* containments overflow to each other within outside wall



CORDOVA ABOVE GROUND TANKS BLDG. 3

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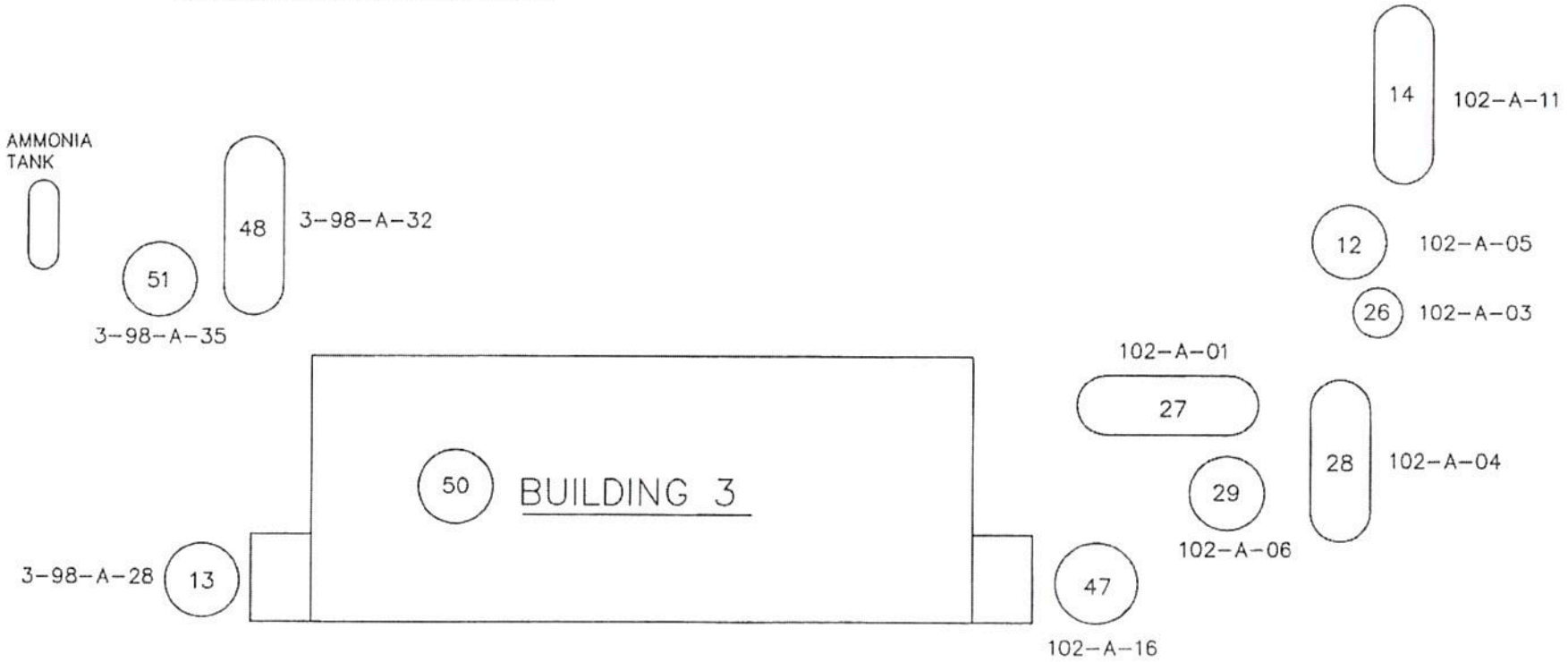
BUILDING 3 ABOVE GROUND TANKS

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
0102-A-01	3-27	30	* 30	P
0102-A-03	3-26	6	* 6	P
0102-A-04	3-28	30	* 30	P
0102-A-05	3-12	25	* 25	F
0102-A-06	3-29	25	* 25	F
0102-A-11	3-14	18	* 18	P
0102-A-16	3-47	50	* 50	F
0398-A-28	3-13	25	none	P
0398-A-35	3-51	77	none	F
0398-A-32	3-48	18	* 18	P

* This is estimated minimum until further evaluated.

These tanks have metal wall containment.

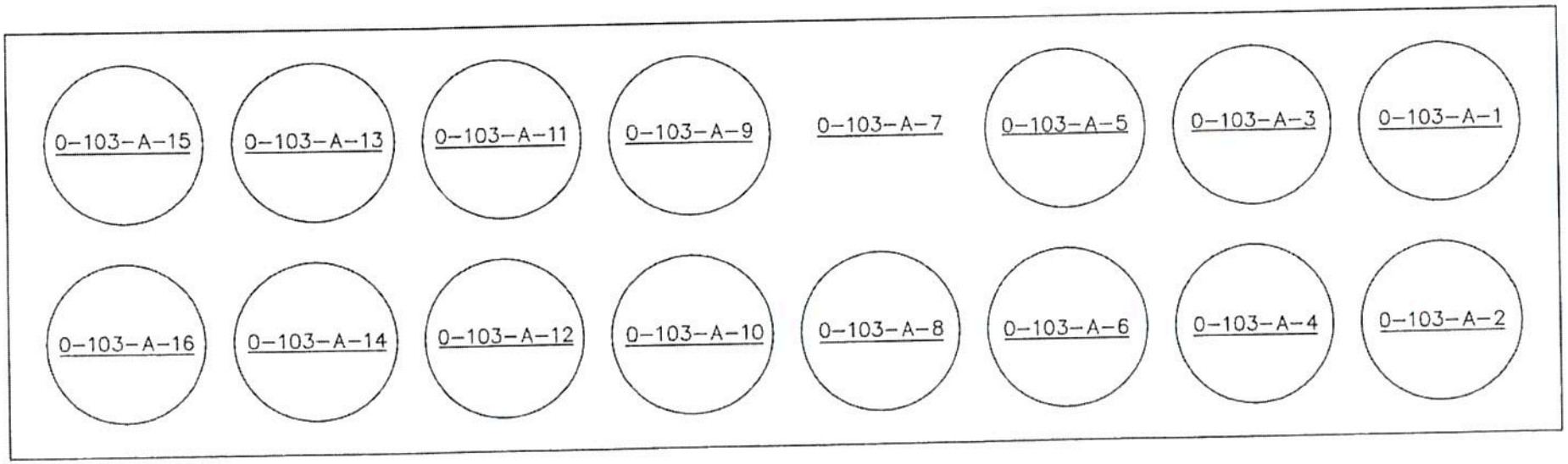


CORDOVA – BLDG. #3 ABOVEGROUND TANK FARM

CONFIDENTIAL

BUILDING 3 TANK FARM

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
103-A-1	AGT #1	20	70	F
103-A-2	AGT #2	20	70	F
103-A-3	AGT #3	20	70	F
103-A-4	AGT #4	30	70	F
103-A-5	AGT #5	20	70	F
103-A-6	AGT #6	20	70	F
103-A-8	AGT #8	20	70	F
103-A-9	AGT #9	20	70	F
103-A-10	AGT #10	30	70	F
103-A-11	AGT #11	20	70	F
103-A-12	AGT #12	30	70	F
103-A-13	AGT #13	20	70	F
103-A-14	AGT #14	30	70	F
103-A-15	AGT #15	20	70	F
103-A-16	AGT #16	20	70	F



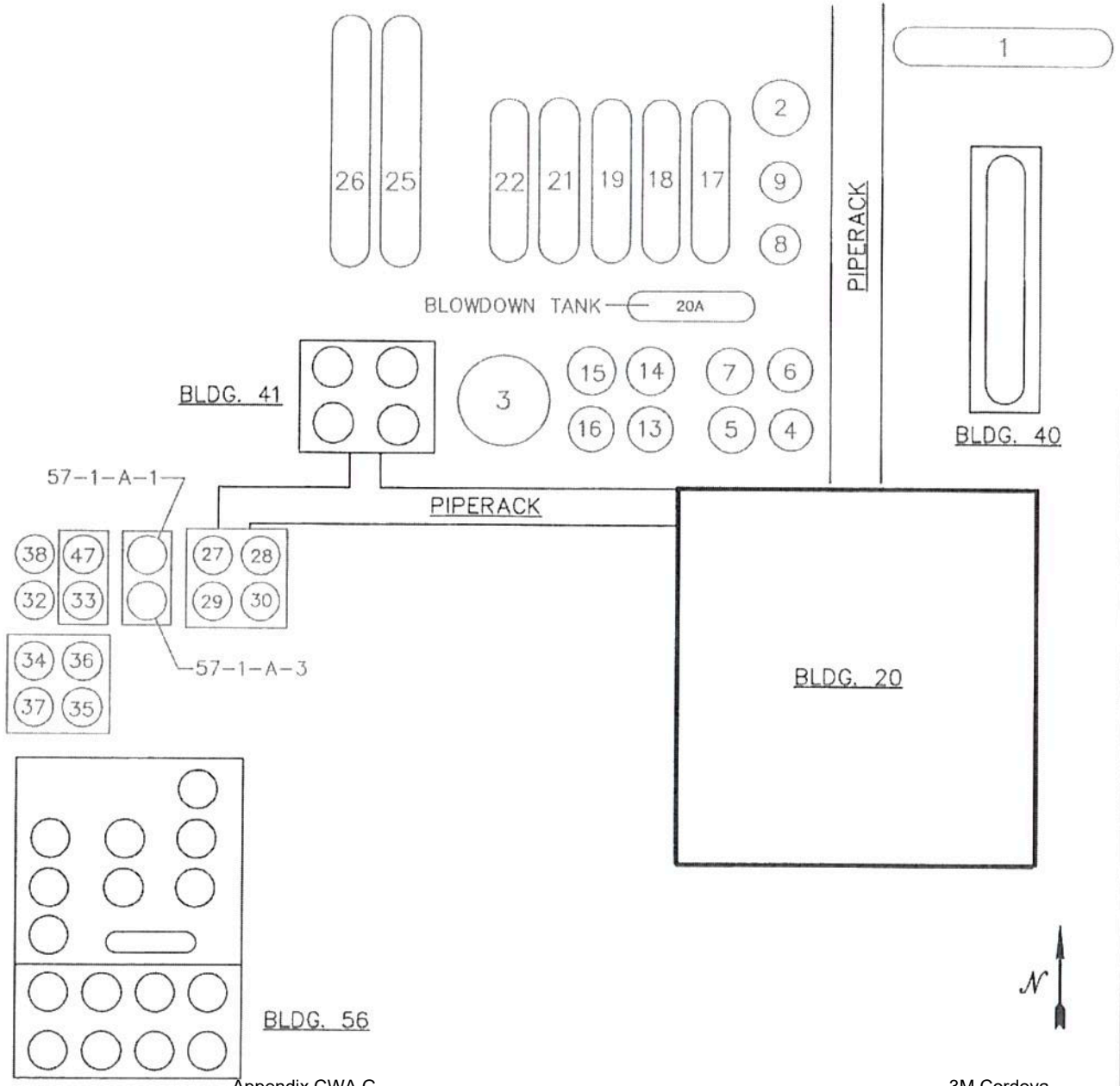
CORDOVA ABOVE GROUND TANKS BUILDING 20

CONFIDENTIAL

BUILDING 20 ABOVEGROUND TANKS

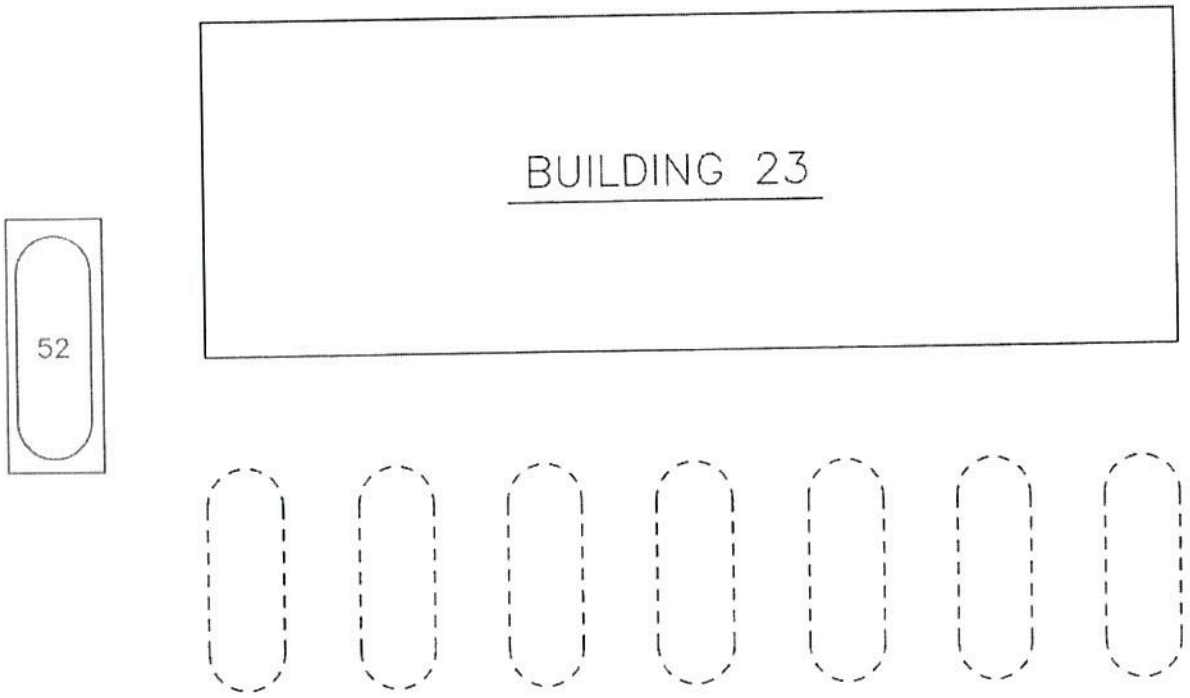
Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
2098-A-02	20-2	20	*47.5	F
2098-A-03	20-3	50	70	F
2098-A-04	20-4	4	*47.5	P
2098-A-05	20-5	4	*47.5	P
2098-A-06	20-6	4	*47.5	P
2098-A-07	20-7	4	*47.5	P
2098-A-08	20-8	10	*47.5	P
2098-A-09	20-9	10	*47.5	P
2098-A-13	20-13	6	*47.5	P
2098-A-14	20-14	6	*47.5	P
2098-A-15	20-15	6	*47.5	P
2098-A-16	20-16	6	*47.5	P
2098-A-17	20-17	18	*47.5	P
2098-A-18	20-18	18	*47.5	P
2098-A-19	20-19	18	*47.5	P
2098-A-21	20-21	18	*47.5	P
2098-A-22	20-22	18	*47.5	P
2098-A-25	20-25	30	*47.5	P
2098-A-26	20-26	30	*47.5	P
2098-A-27	20-27	15	*16.5	P
2098-A-28	20-28	15	*16.5	P
2098-A-29	20-29	15	*16.5	P
2098-A-30	20-30	15	*16.5	P
2098-A-32	20-32	15	-	P
2098-A-33	20-33(BWT)	25	*28.2	P
2098-A-34	20-34	25	*55	P
2098-A-35	20-35	15	*55	P
2098-A-36	20-36	25	*55	P
2098-A-37	20-37	15	*55	F
2098-A-38	20-38	15	-	P
2098-A-47	20-47	15	*28.2	P

* Total estimated containment



BUILDING 23 ABOVEGROUND TANK 52

CONFIDENTIAL



BUILDING 23 ABOVEGROUND TANKS

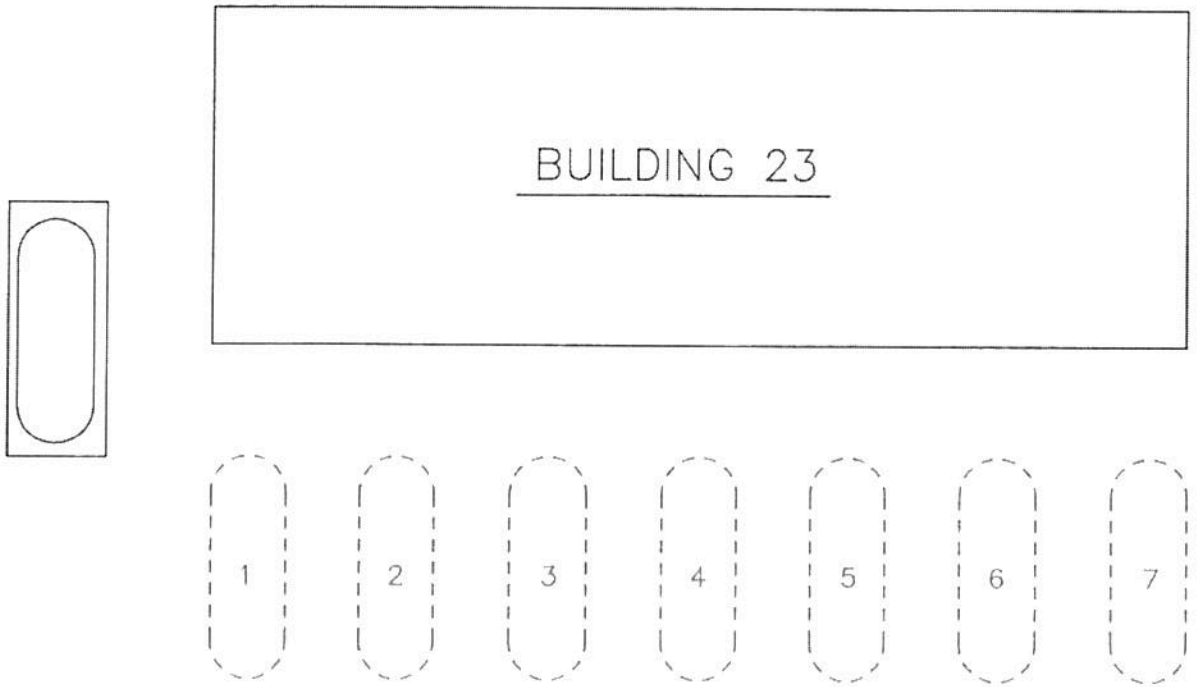
Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
2304-A-08	52	20	29	P

44 x 22 x4

BUILDING 23 UNDERGROUND TANKS

N

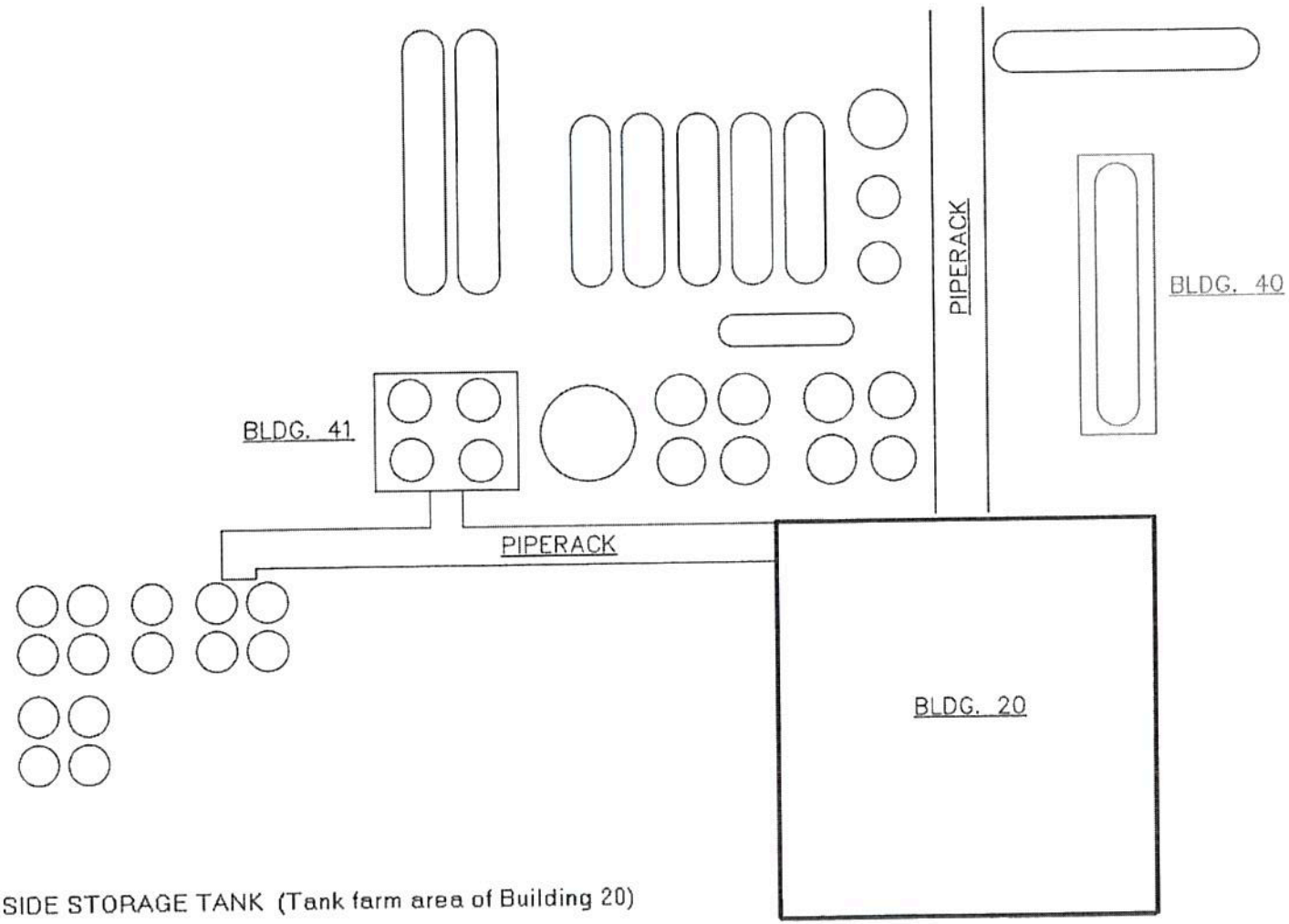
CONFIDENTIAL



BUILDING 23 UNDERGROUND TANKS

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
2398-A-01	23-1	30	NA	U
2398-A-02	23-2	30	NA	U
2398-A-03	23-3	30	NA	U
2398-A-04	23-4	30	NA	U
2398-A-05	23-5	30	NA	U
2398-A-06	23-6	30	NA	U
2398-A-07	23-7	30	NA	U

CORDOVA ABOVE GROUND TANKS BUILDING 40



BUILDING 40 INSIDE STORAGE TANK (Tank farm area of Building 20)

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	1,000s of gals.	Tank Roof Type
4000-A-01	40-1	30	* 35.5	P

* Inside storage

22 x 72 x 2

CONFIDENTIAL

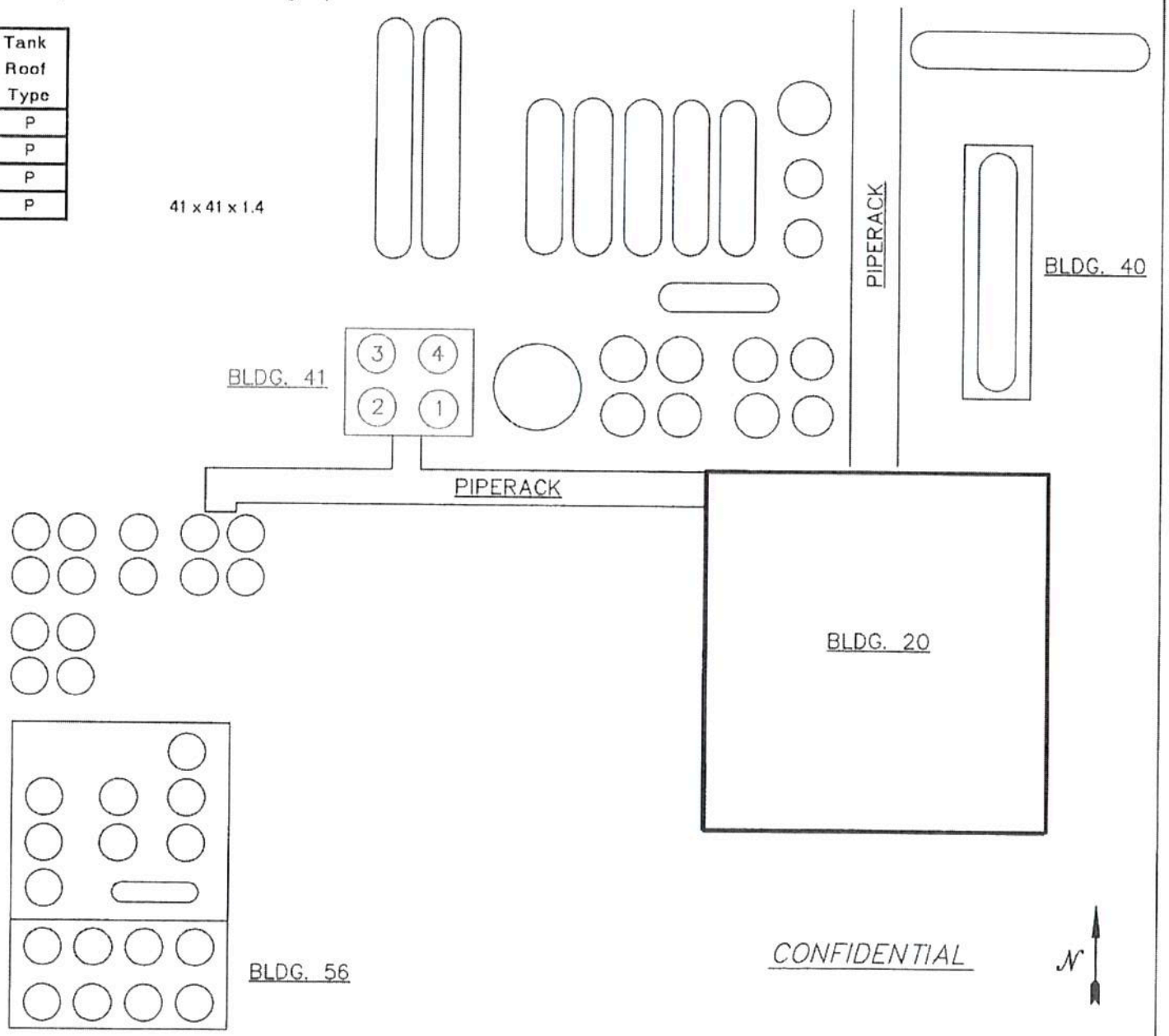
N

CORDOVA ABOVE GROUND TANKS BUILDING 41

BUILDING 41 INSIDE STORAGE TANKS (Tank farm area of Building 20)

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
4101-A-01	41-1	10	*17	P
4101-A-02	41-2	10	*17	P
4101-A-03	41-3	10	*17	P
4101-A-04	41-4	10	*17	P

* Inside storage: total estimated.



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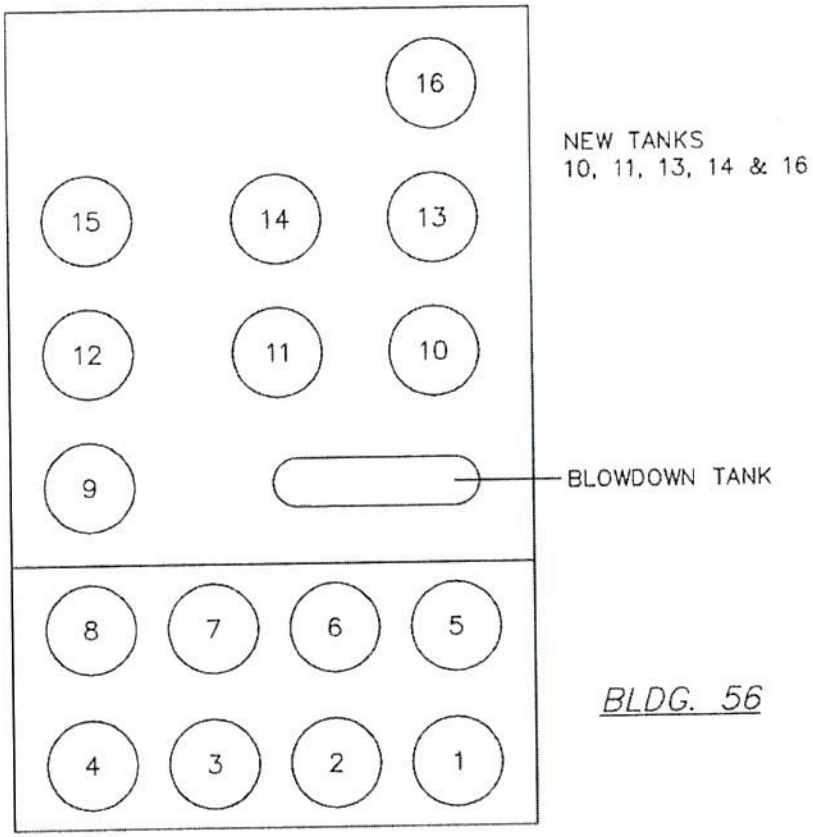
Bldg 56 Tanks

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
56-1-A-1	56-1	10	* 39.8	P
56-1-A-2	56-2	10	* 39.8	P
56-1-A-3	56-3	10	* 39.8	P
56-1-A-4	56-4	10	* 39.8	P
56-1-A-5	56-5	10	* 39.8	P
56-1-A-6	56-6	10	* 39.8	P
56-1-A-7	56-7	10	* 39.8	P
56-1-A-8	56-8	10	* 39.8	P
56-98-A-1	ST-9	10	* 39.8	P
56-98-A-4	ST-12	10	* 39.8	P
56-98-A-7	ST-15	10	* 39.8	P

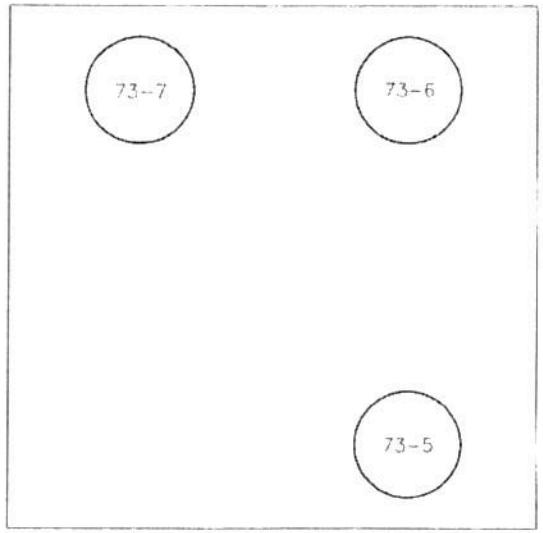
* Inside storage; total estimated.

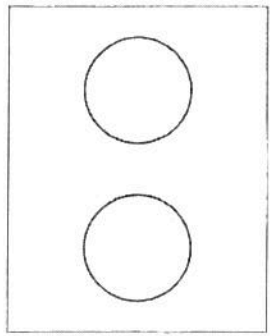
38 x 70 x 2



CORDOVA ABOVE GROUND TANKS BUILDING 56

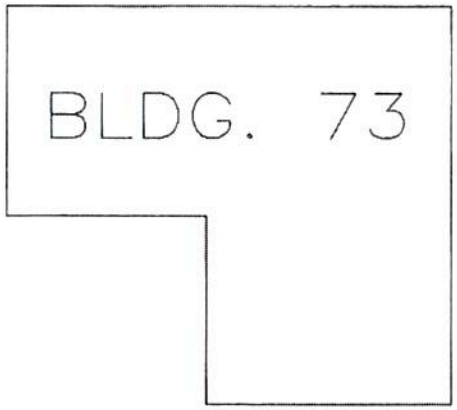
THERMAL OXIDIZER AND TANK FARM





73-98-A-1
18 ACID

73-98-A-2
BF



N

Bldg 73 Tanks

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	[illegible] 1,000s of gals.	Tank Roof Type
73-98-A-5	73-5	50	67	
73-98-A-6	73-6	50	67	
73-98-A-7	73-7	50	67	
73-98-A-1		15	25	F pressure tank
73-98-A-2		10	25	F pressure tank

CONFIDENTIAL

WASTE WATER TREATMENT AND UTILITIES

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WASTE WATER TREATMENT AND UTILITIES

Cordova Engrg. Number	Cordova T. F. Number	Capacity 1,000s of gals.	Containment 1,000s of gals.	Tank Roof Type
999-Z-99	Fuel 1 (gas)	1	NA	U
999-Z-99	Fuel 2 (diesel)	1	NA	U
999-Z-99	Sulfuric Acid	4	*4	F
999-Z-99	Sulfuric Acid	8	*8	F
999-Z-99	Phosphoric Acid	4.5	*4.5	F
999-Z-99	25% Lime slurry	50	*50	F
999-Z-99	Calcium Chloride	10	*10	F
999-Z-99	Liquid Oxygen	11	NA	P
999-Z-99	Liquid Nitrogen (3 Tanks)	11 each (33 Total)	NA	P

* Minimum containment

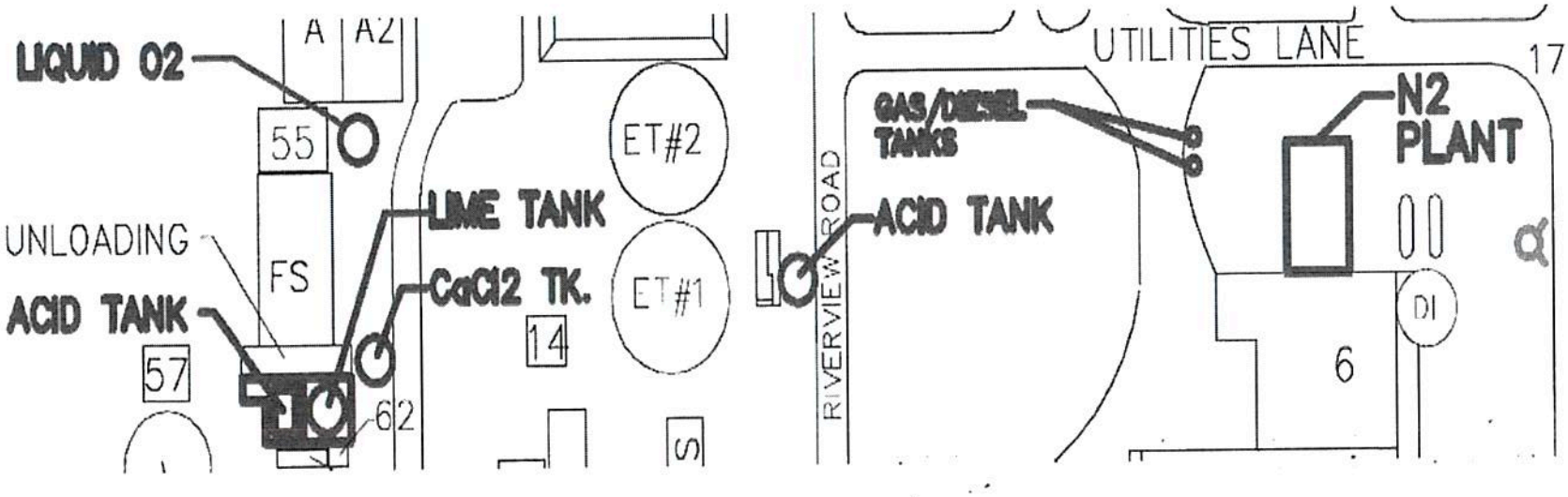


FIGURE 3-B:

Location Map
3M Cordova, Illinois

N

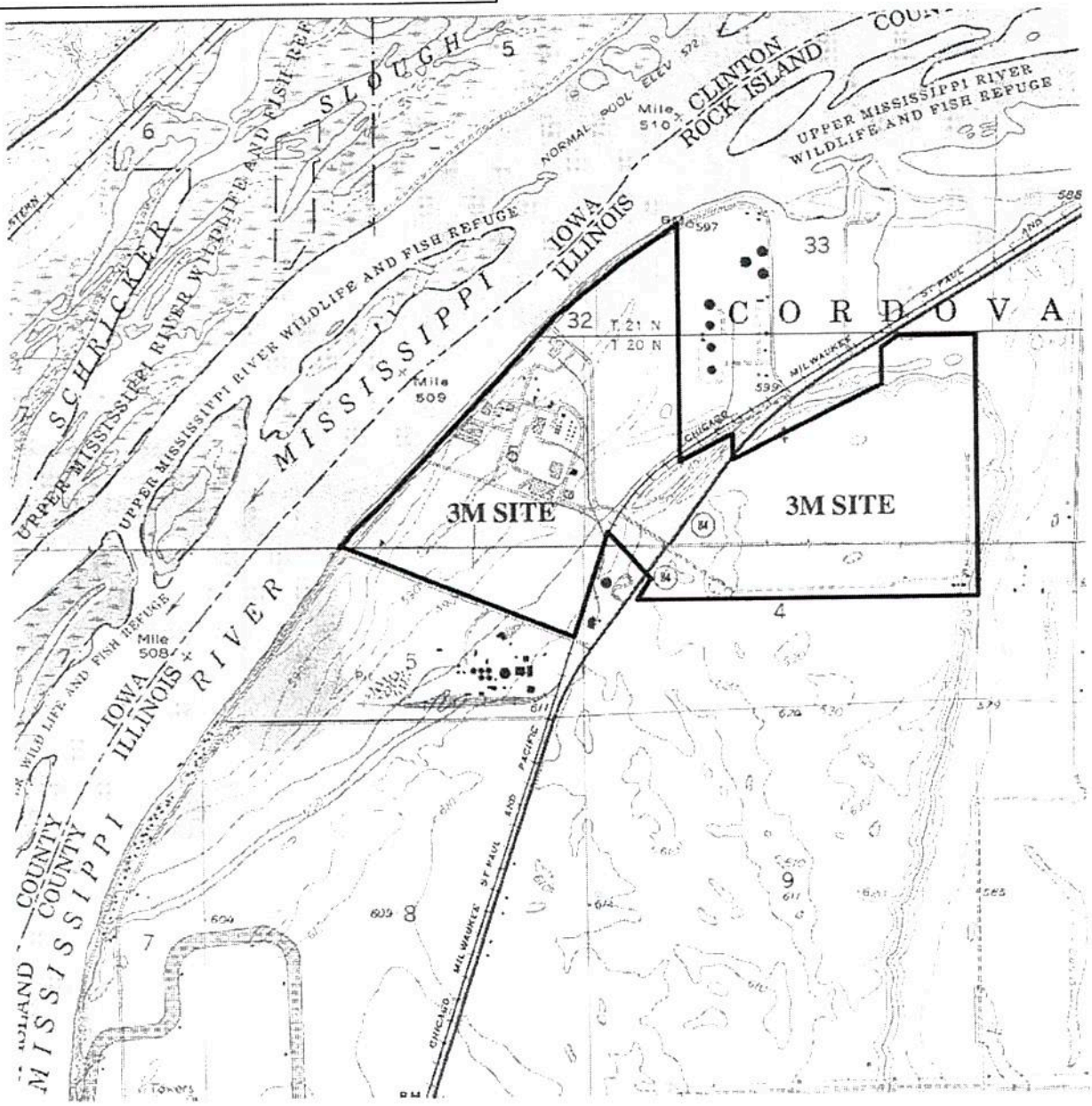


FIGURE 3-B
LOCATION MAP
3M CORDOVA, ILLINOIS

FIGURE 3-C:

Plant Layout

PLOT PLAN
3M CORDOVA
PLANT
UPDATED 9/19/16
PRIMARY CLARIFIER
CLARIFIER
ORGANIC EXPANSION
LIQUID O2
UNLOADING
ACID TANK
FS
Ni/F SYSTEM
RAPID NIX
LIME TANK
LIFT STATION
CHEMICAL SEWER TRENCH
P#2
P#3
MS#1
MS#2
AD
ET#1
ET#2
BLDG. 20 DIGLYME & CAUSTIC UNLOADING
CONTRACTOR PARKING
GUARD
GATE 2
CONTRACTOR AREA
CONCRETE PAD
ACKERMAN WAY
RIVERVIEW ROAD
BLDG #30
TRUCK SCALE
MIDDLE ROAD
UGTF
WAREHOUSE LANE
NICKEL STORAGE
UTILITIES LANE
GAS CYLINDERS
N2 PLANT
SPCC CONTAINMENT STRUCTURE
FLARE
TRUCK FARM ALLEY
TRUCK PARKING
LIBEY BLVD
GATE 1
GUARD
VIDEO DRIVE
3M DRIVE
TO MAG
LOT 1
LOT 2
LOT 3
LOT 4
NOT TO SCALE – FOR REFERENCE ONLY
0 100 200 300 400 500
BUILDING DESCRIPTIONS
1. GENERAL OFFICE
2. WAREHOUSE
2A. EMPLOYEE SERVICES
3. PRODUCTION
4. PRODUCTION
5. PLANT ENGINEERING
6. BOILER HOUSE
7. FIRE PUMP HOUSE
15. DRUMMING STATION
20. PRODUCTION
23. PRODUCTION
30. PRODUCTION
73. THERMAL OXIDIZER
74. FIRE STATION
89. 3MCM

FIGURE 3-D:

TOPOGRAPHIC MAP

Reference: Main Plant Area Site Drainage Map A (Cord-888-C-911)

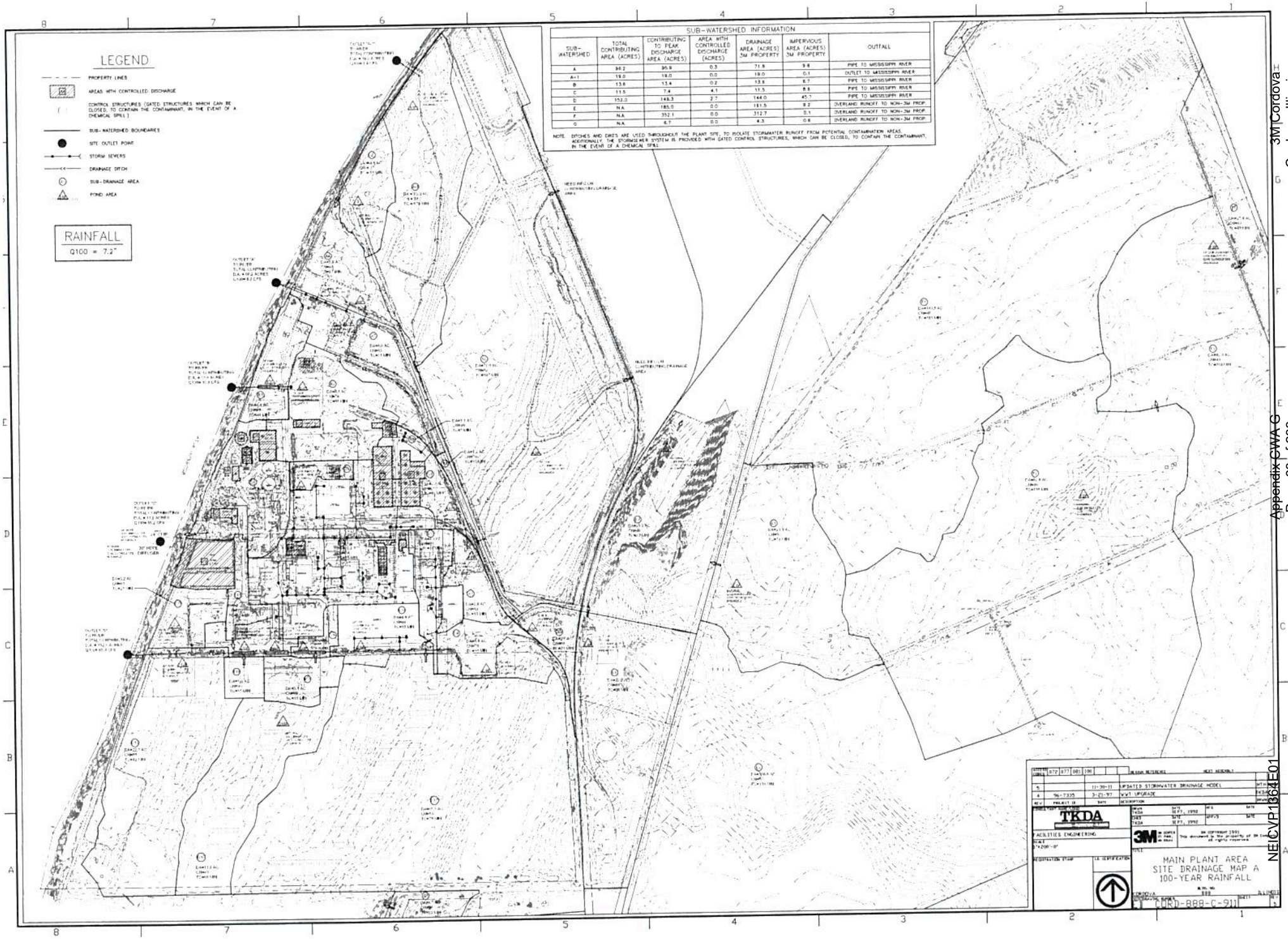


FIGURE 3-E:

TOPOGRAPHIC MAP

Reference: Main Plant Area Site Drainage Map A (Cord-888-C-911B)

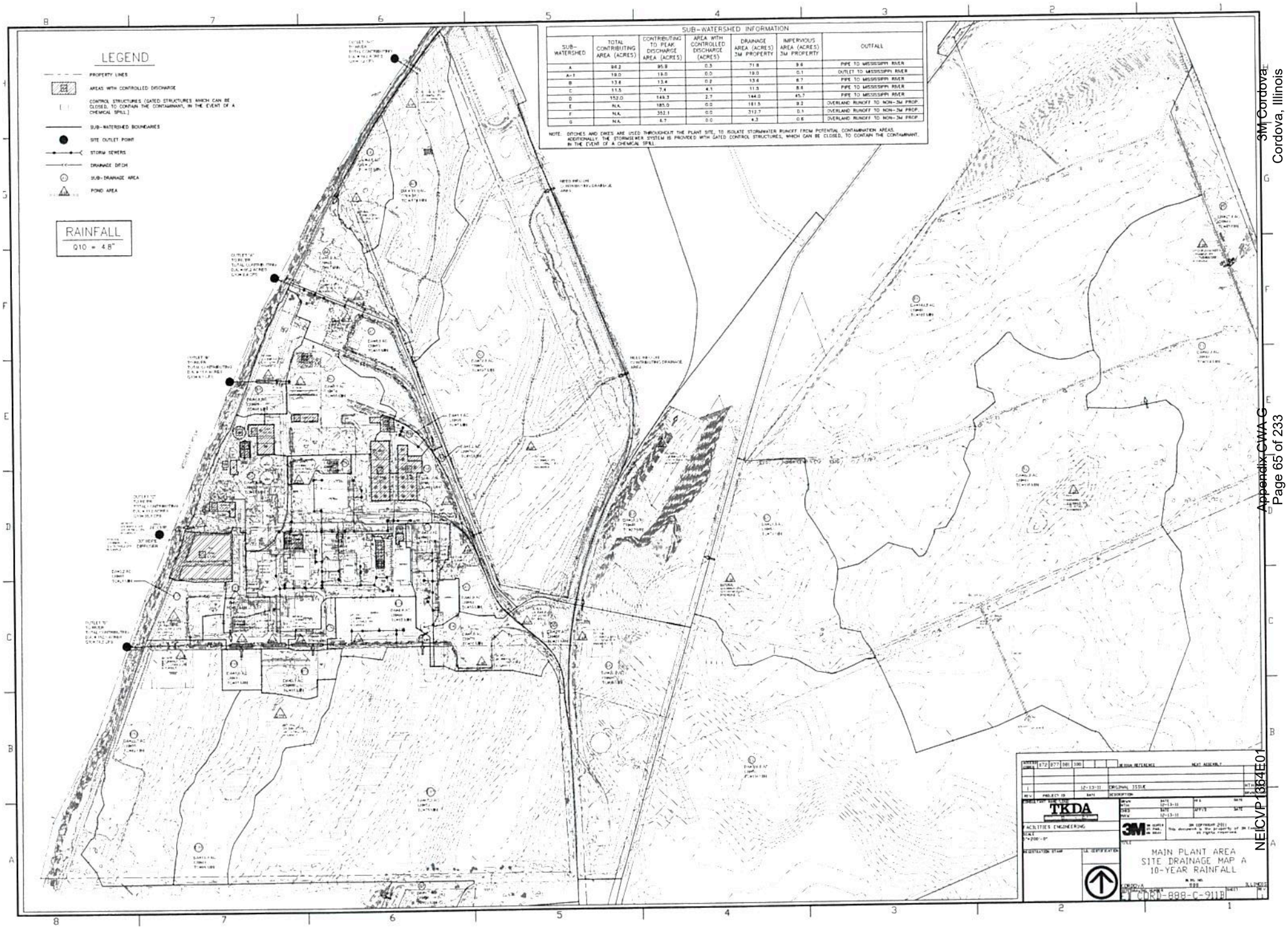

LEGEND
PROPERTY LINES
AREAS WITH CONTROLLED DISCHARGE
CONTROL STRUCTURES (GATED STRUCTURES WHICH CAN BE CLOSED, TO CONTAIN THE CONTAMINANT, IN THE EVENT OF A CHEMICAL SPILL)
SUB-WATERSHED BOUNDARIES
SITE OUTLET POINT
STORM SEWERS
DRAINAGE DITCH
SUB-DRAINAGE AREA
POND AREA
RAINFALL
Q10 = 4.8"
SUB-WATERSHED INFORMATION
SUB-WATERSHED
TOTAL CONTRIBUTING AREA (ACRES)
CONTRIBUTING TO PEAK DISCHARGE AREA (ACRES)
AREA WITH CONTROLLED DISCHARGE (ACRES)
DRAINAGE AREA (ACRES) 3M PROPERTY
IMPERVIOUS AREA (ACRES) 3M PROPERTY
OUTFALL
A 98.2 95.8 0.3 71.8 9.6 PIPE TO MISSISSIPPI RIVER
A-1 19.0 19.0 0.0 19.0 0.1 OUTLET TO MISSISSIPPI RIVER
B 13.6 13.4 0.2 13.6 8.7 PIPE TO MISSISSIPPI RIVER
C 11.5 7.4 4.1 11.5 8.6 PIPE TO MISSISSIPPI RIVER
D 152.0 149.3 2.7 144.0 45.7 PIPE TO MISSISSIPPI RIVER
E N.A. 185.0 0.0 181.5 9.2 OVERLAND RUNOFF TO NON-3M PROP.
F N.A. 352.1 0.0 312.7 0.1 OVERLAND RUNOFF TO NON-3M PROP.
G N.A. 6.7 0.0 4.3 0.6 OVERLAND RUNOFF TO NON-3M PROP.
NOTE: DITCHES AND DIKES ARE USED THROUGHOUT THE PLANT SITE, TO ISOLATE STORMWATER RUNOFF FROM POTENTIAL CONTAMINATION AREAS. ADDITIONALLY, THE STORMSEWER SYSTEM IS PROVIDED WITH GATED CONTROL STRUCTURES, WHICH CAN BE CLOSED, TO CONTAIN THE CONTAMINANT IN THE EVENT OF A CHEMICAL SPILL.
TKDA
FACILITIES ENGINEERING
3M
MAIN PLANT AREA
SITE DRAINAGE MAP A
10-YEAR RAINFALL
CORD-888-C-911B

FIGURE 3-F:

TOPOGRAPHIC MAP

Reference: Well Field Area Site Drainage Map (Cord-888-C-916)

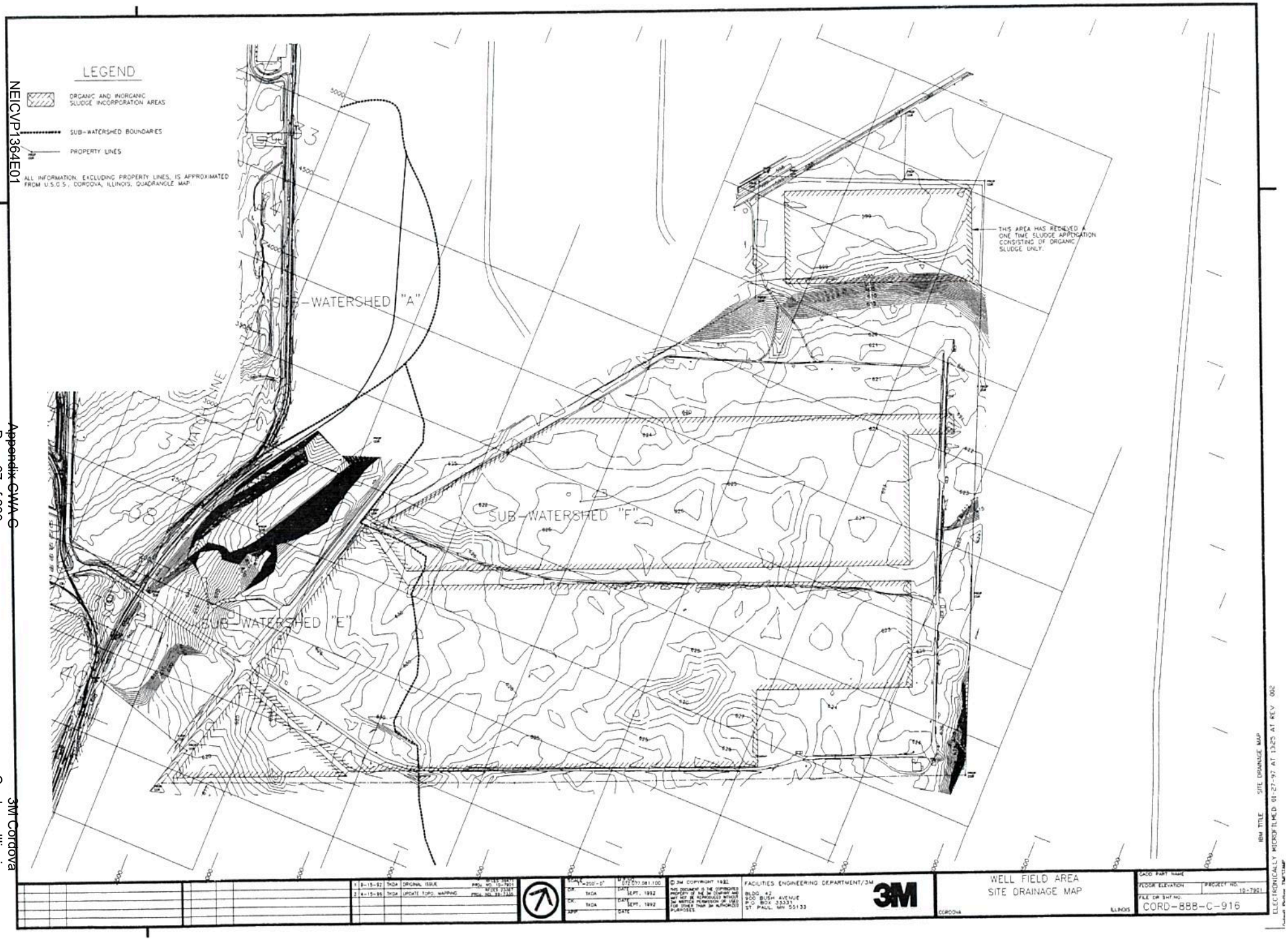
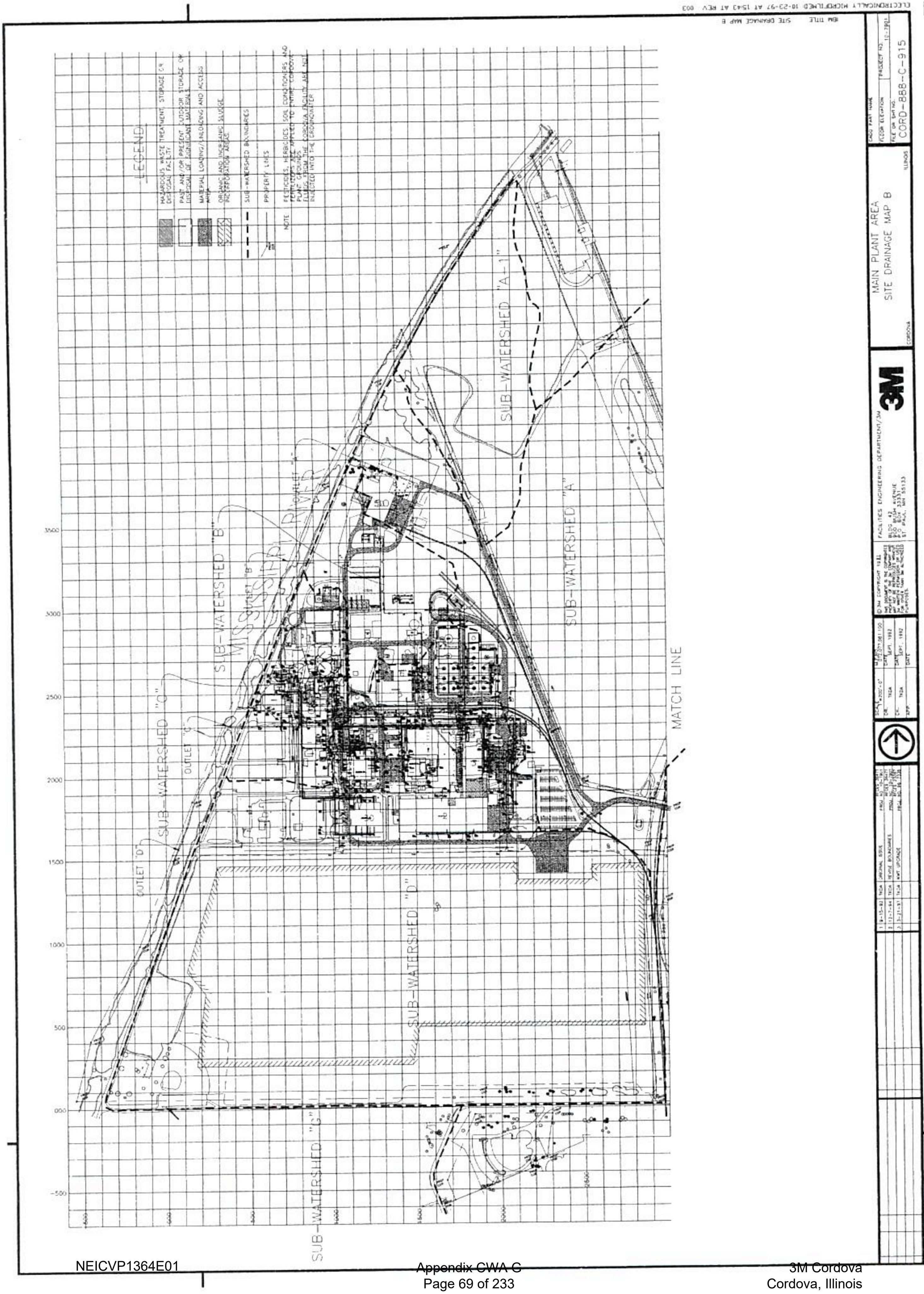


FIGURE 3-G:

TOPOGRAPHIC MAP

Reference: Site drainage Map B (Cord-888-C-915)


LEGEND
SUB-WATERSHED "A-1"
SUB-WATERSHED "A"
SUB-WATERSHED "B"
SUB-WATERSHED "C"
SUB-WATERSHED "D"
OUTLET "B"
OUTLET "C"
OUTLET "D"
MATCH LINE
MAIN PLANT AREA
SITE DRAINAGE MAP B
CORD-888-C-915

Storm Valve Reference List

Reference: Cfp01\Ci-common\SWPPP\plan\(3-38)SSdrain.doc

Storm Drain Valve Numbers

2/22/2017

1. Roadway Southeast at Loading Dock of Building #2.
2. Roadway Northeast at Loading Dock of Building #2.
3. Roadway Southeast at Loading Building #36.
4. Roadway East at Trash Compactor at Building #3.
5. Roadway West at Building #4.
6. Roadway Southeast side of Building #5 Dock.
7. Roadway Northeast side of Building #5 Dock.
8. Roadway North side North of Old Above Ground Tank Farm.
9. Roadway South side North of Old Above Ground Tank Farm.
10. Roadway Building #23 UGT Northwest of Tank Farm.
11. Roadway Building #23 UGT Southwest of Tank Farm.
12. Roadway East at Building #23.
13. Roadway Southwest of Building #23 North
14. Roadway Southwest of Building #23 South.
15. Roadway East of Building #20.
16. South Storm Ditch to the River.
17. Center Storm Ditch to the River.
18. North Storm Ditch to the River.
19. Roadway Northeast at Building #20.
20. Diversion to Chemical Sewer Old Above ground Tank Farm. (Orange)
21. Diversion to Storm Sewer Old Above ground Tank Farm. (Green)

21A Diversion Pit (S of Valve 21/ N of TF26)

22. Diversion to Mag Mix Pit Building #20 Tank Farm. (Orange)
23. Diversion to Storm Ditch Building #20 Tank Farm. (Green)
24. Diversion to Ni/Fl Sewer Building #44. (Orange)
25. Diversion to Storm Ditch Building #44. (Green)
26. Truck Containment to Storm Ditch Southeast Building #5. (Green)
27. Roadway Southeast of Building #23
28. Area Drain Southwest of Building #61.
29. North Above Ground Tank Farm to Chemical Sewer.
30. North-center Above Ground Tank Farm to Chemical Sewer.
31. South-center Above Ground Tank Farm to Chemical Sewer.
32. South Above Ground Tank Farm to Chemical Sewer.
33. North of NIAX (Hazardous Waste Storage) to South Storm Ditch. (Green)
34. South of Building #23 UGTF to South Storm Ditch. (Green)
35. Southeast of Building #20 Loading/Unloading of ISO's to Chemical Sewer. (Orange)
36. Phosphoric Acid Tank containment. (Chemical).

Blue indicates roadway drains Red indicates priority drains

Red indicates priority drains

Do not drain New Above Ground Tank Farm without WWT OK.

F:\SWPPP\Plan\SWPPP Plan Current_in CICOMMON\(3-38) SSdrain.doc

Storm Drain Valve Numbers

2/22/2017

37. Carbon-dioxide Truck unloading area. (Storm).
38. Southwest Primary Settler to Storm Sewer.
39. Diversion to Chemical Sewer New Above Ground Tank Farm (Orange)
40. Diversion to Storm Sewer New Above Ground Tank Farm (Green)
41. Diversion to Storm Sewer TT. Loading Southwest of Bldg. #20(Green)
42. To Storm Ditch East of Bldg. #4 –TT. Loading/Unloading North of Bldg. #4 (Green)
43. Trailer Storage pad South and West of Bldg. #30(Green)
44 Tank Farm North of BLDG. #44 {4} tanks (Orange) or (Green)
45. BLDG. #44 Bay #5 (Orange) or (Green)
46. BLDG. #44 Bay # 2-3-4 (Orange) or (Green)
47. BLDG. #56 Tank farm (Orange)
48. North Railcar unloading (Green)
49. TF-30 Fire Water (Green) or (Orange)
50. TF-31 Fuel Oil (Green) or (Orange)
51. TF-32 MEK (Green) or (Orange)
52. Pump for TF-32 (Green)
53. TF-33 Toluene (Green) or (Orange)
54. Pump for TF-33 (Green)
55. TF-34 Ethyl Acetate (Green) or (Orange)
56. Pump for TF-34 (Green)
57. TF-35 Isooctyl Acetate (Green) or (Orange)
58. Pump for TF-35 (Green)
59. TF-36 Isooctyl Acetate (Green) or (Orange)
60. Pump for TF-36 (Green)
61. TF-37 Isooctyl Alcohol (Green) or (Orange)
62. Old Pump Containment for TF-37 (Green)
62A New Pump Containment for TF-37 (Green)
63. Old Heptane pump (Green)
64. TF-49 Methanol (Green) or (Orange)
65. Pump for TF –49 (Green)
66. TF-46 Acrylic Acid (Green) or (Orange)
67. Pump for TF-46 (Green)
68. TF-38 Heptane (Green) or (Orange)
69. Pump for TF-38 (Green)
70. TF-39 Isooctyl Alcohol (Green) or (Orange)
71. Old Pump Containment for TF-39 (Green)
71A New Pump Containment for TF-39 (Green)

Blue indicates roadway drains Red indicates priority drains

Red indicates priority drains

Do not drain New Above Ground Tank Farm without WWT OK.

F:\SWPPP\Plan\SWPPP Plan Current_in CICOMMON\(3-38) SSdrain.doc

Storm Drain Valve Numbers

2/22/2017

72. TF-40 Acetone (Green) or (Orange)
73. Pump for TF-40 (Green)
74. TF-41 Isopropanol (Green) or (Orange)
75. Pump for TF-41 (Green)
76. TF-42 RD-521 (Green) or (Orange)
77. Pump for TF-42 (Green)
78. TF-43 Xylene (Green) or (Orange)
79. Pump for TF-43 (Green)
80. TF-44 MC 957 (Green) or (Orange)
81. TF-45 MC 961 (Green) or (Orange)
82. North Glycol station (Green)
83. Pump for TF-45 (Green)
84. Glycol pump for BLDG. #21 loading (Green)
85. BLDG.#21 loading dock (North) (Green)
86. BLDG.#21 loading dock (South) (Green)
87. South Railcar unloading (East) (Green)
88. North Railcar unloading (West) (Green)
89. TF-26 Pump Pit (Green)
90. TF-26 Sulfuric Acid (Green)
91. TF-12 Scrap Caustic (Green)
92. TF-12 Pump Pit (Green)
93. TF-14 Hydrazine scrap (Green)
94. TF-14 Pump Pit (Green)
95. TF-28 RM F2001 (Green)
96. TF-28 Pump Pit (Green)
97. TF-27 RM 3001 (Green)
98. TF-29 RM-215 (Green)
99. TF-29 Pump Pit(Green)
100. TF-47 MC 871 (Pump Only)
101. TF-48 RM 15664 (Green)
102. TF-52 MC 1506 (Green)
103. BLDG. #39 TT Loading For BLDG.#20&#23 (North) (Orange)
104. BLDG. #39 TT Loading For BLDG.#20&#23 (South) (Orange)
105. BLDG. #23 Underground Tank Farm (North) (Green)
106. BLDG. #23 Underground Tank Farm (Green)
107. BLDG #23 Underground Tank Farm (Green)
108. BLDG. #23 Underground Tank Farm (Green)

Blue indicates roadway drains Red indicates priority drains

Red indicates priority drains

Do not drain New Above Ground Tank Farm without WWT OK.

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Storm Drain Valve Numbers

2/22/2017

109. BLDG. #23 Underground Tank Farm (South) (Green)
110. BLDG. #6 Sulfuric Acid Tank (Orange)
111. BLDG. #6 Caustic Tank (Orange)
112. BLDG #6 TT Unloading (Orange)
113. BLDG. #18 Storage Pad (East) (Orange)
114. BLDG. #18 TT loading (Orange)
115. BLDG. #18 storage tank Pit (Orange)
116. Thermal Oxidizer – Vent Gas Blower Area (North)
117. Thermal Oxidizer – Vent Gas Blower Area (South)
118. Thermal Oxidizer – 30% HF Tank Farm (Green) or (Orange)
119. BLDG. #30 Trailer Loading Containment (Green) or (Orange)
120. Bldg 5 open top dumpster containment pad (west of bldg 5) (Green)
121. SPCC Containment – Track 5 (Green) Note: Drains to Outfall 002
122. Truck Trailer Parking Area - Located S of bldg 30 and W of bldg 90 (Green)
123. 3001 Rectifier Containment – NE side of Bldg 30 (Green)
124. 3002 Rectifier Containment – N side of Bldg 30 (Green)
125. Diversion Pit – NE of Bldg 44/ SE of Duck Pond (Orange – to NiF Pretreatment)
126. Diversion Pit – NE of Bldg 44/ SE of Duck Pond (Orange – to Organic; no NiF Pretreatment)
127. Tank 40-1 RM-3176 Blowdown Tank Containment (Green)
128. Unloading Containment SE of Bldg 51 (30,000 gal. Lime Tank) (Green)
129. Unloading Containment N of Bldg 20/ S of Bldg 61 (Green)
130. Bldg 4 Glycol Containment (Trailer Pad N. of Bldg 4) (Green)
131. IB Acid/ IBF Storage Tank Containment (S of Bldg 73/ 30% HF Tank Farm) (Green)
132. Roadway W of Bldg 6/ N of Building #5 Smoking Area
133. 3003 Rectifier Containment – NW side of Bldg 30 (Green)
134. Salt WFE Feed Tanks (2) containment to Diversion Pit NE of Bldg 44 (Orange) or (Green)
135. Salt WFE Skid & Loading containment – North side of skid (Orange – to Organic)
136. Mag EQ South Pump to Salt WFE – (Green)
137. Mag EQ North Pump to Salt WFE – (Green)
138. BLDG 16 Containment – (Orange – old chem sewer)
139. BLDG 22 Containment – to diversion pit (see 21A, Orange or Green)

Blue indicates roadway drains Red indicates priority drains

Red indicates priority drains

Do not drain New Above Ground Tank Farm without WWT OK.

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SECTION 4

ASSESSMENT OF SITE STORM WATER POLLUTION PREVENTION PROGRAM

INTRODUCTION

The goals of the SWPPP are:

- To prevent discharges of contaminated storm water to waters of the United States (i.e. the Mississippi River); and
- To ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility (i.e. pollution prevention).

A program is in place at the facility for stormwater control, treatment, and pollution prevention. The objective of the program in place is to protect surface water in the following manner:

- Stormwater collected in certain process areas, process building roofs, and tank farms is diverted to the wastewater treatment area for treatment.
- Stormwater collected throughout the rest of the plant is diverted to culverts, low-lying areas, and ditches and, if possible, is retained on site. Outfall B is never opened, and Outfalls C and D are only opened if a release is necessary due to the amount of stormwater. The collected stormwater is always inspected and tested prior to discharge to confirm that it is not contaminated. Only non-process area storm water collected from the area around Building 50 is discharged through Outfall A.
- An active pollution prevention plan is in place at the facility.

OVERVIEW

The storm water collected onsite is diverted to culverts, low-lying areas, and ditches. Under normal operating conditions, storm water is retained on-site. There is a high level of storm water control and pollution prevention on the plant site. The culverts that surround most of the plant, and in particular, the process areas, provide the first level of control. The second level of control is provided by the secondary containment present for most of the above ground storage tanks and pumps. Also, all stormwater from diked storage areas is retained and inspected for signs of pollutants prior to discharge. Upon inspection if the material is suspect it is then tested and if necessary diverted through the wastewater treatment plant.

STORMWATER MANAGEMENT CONTROLS

The controls listed in NPDES IL0003140 Special Condition 12.F are in place and in regular use at the 3M Cordova Plant. A discussion of the stormwater management controls at the facility follows. Recommendations for further stormwater management and pollution prevention are found in Appendix 4. Improvements to the current stormwater management program will be implemented as discussed in the next section.

Storm Water Pollution Prevention Personnel

The stormwater pollution prevention team is identified in Section 2.

Preventative Maintenance

Preventative maintenance is performed on a routine basis at the facility and is scheduled in the 3M Cordova Plant Preventative Maintenance (PM) program. The preventative maintenance schedule includes regular maintenance on storage tanks, piping, pumps, valves, and sumps associated with materials exposed to stormwater. The objective of the Preventive Maintenance Program is to prevent equipment breakdowns by utilizing preventive, predictive, and corrective maintenance. Approximately 5% of the total manufacturing cost is spent on maintenance of plant equipment, and 80% of the maintenance is planned repair as opposed to emergency repair. A management of change procedure requires the evaluation of the safety and environmental impacts of any equipment modification prior to incorporating the modification. Procedures for testing and inspecting stormwater conveyance system devices and plant equipment that could fail and result in a discharge of pollutants to the stormwater system are documented in SOPs. Refer to the PM Program for details concerning preventative maintenance activities at the facility.

Good Housekeeping

Good housekeeping practices are observed at the 3M Cordova Plant. Materials are stored properly. Spills are promptly cleaned up. The work environment is clean and orderly.

Spill Prevention and Response

Areas where potential spills may occur at the facility include all of the industrial activities outlined in Section 3 of this Plan and potential oil spill areas outlined in the SPCC Plan. The facility Emergency Response Red Book extensively covers spill prevention and response for chemicals stored at the facility. An Emergency Response Squad has been appointed and trained for the facility and spill response equipment is readily available at locations where spills might occur. A list of personnel to contact in the event of a spill is maintained in the Red Book. Refer to the 3M SPCC Plan and the 3M Red Book for details concerning this requirement.

Stormwater Management Practices

I. Containment:

The 3M Cordova Plant takes steps to minimize the discharge of contaminants in stormwater. Most above ground storage tanks are surrounded by diked containment and control systems. The drains from the diked storage areas have valves that can be opened and closed manually. The valves remain closed in order to retain the stormwater for inspection and testing prior to discharge. The Building 3 Tank Farm, Building 20 Tank Farm, Building 18 drum staging pad, and the Waste Solvent Tank loading/loading area drain to the chemical sewer. The tank containment areas for Building 23, located above the UGTFs drain over ground to the storm sewers. The water in this containment area can be pumped and trucked to the wastewater treatment plant, if necessary. The drainage from the north above ground tank farm dikes can be diverted to either the wastewater treatment plant or the storm sewer.

Storm water sent to the storm sewer flows into the storm water ditches. The storm water ditches terminate in concrete structures with valves that can be opened to the Mississippi River. The valves are kept closed at all times except to release storm water to the river. The water in the ditches can be pumped and trucked to the wastewater treatment plant, if necessary. This provides a second checkpoint for storm water prior to discharge into the Mississippi River.

Paved parking and curbed roadways provide containment and drainage for bulk loading and unloading areas. Storm drains from the roadways are protected by curbs and gates designed to prevent spills from getting into the storm sewer ditches. Additionally, all storm drains onsite feed into outlet pipes that have closed valves to prevent spills from getting into the waterway. Containment in excess of the roadway containment is provided in sub-watershed D which contains the unloading area.

Berms, ditches, and depressions are used around farmland areas and throughout the site to provide containment of storm water. All stormwater that is not diverted through the wastewater treatment plant is diverted to culverts, low lying areas, and ditches and under normal operating conditions, is retained onsite by allowing it to seep into the ground.

II. Oil and Grease Separation:

Storm water sent to the wastewater treatment plant passes through tanks and equipment to remove suspended solids and oil.

III. Debris and Sediment Control:

The storm water that is diverted through the wastewater treatment plant passes through settling tanks where debris and sediment are removed. All other stormwater is diverted to culverts, low lying areas, and ditches and under normal operating conditions, is retained onsite by allowing it to seep into the ground.

IV. Waste Chemical Disposal:

Hazardous waste generated during the manufacturing process is stored in 300-gallon tote tanks, 55-gallon drums, and within facility buildings. The 55-gallon drums and tote tanks are stored outside on a concrete pad with diked containment and a control system. Storm water collected in the diked areas is inspected prior to discharge. Hazardous waste is stored at these sites until removed to indoor storage or from the facility to proper disposal areas. Sub-watersheds B, C, and D store hazardous waste and some raw materials indoors to eliminate exposure to storm water.

V. Stormwater Diversion:

Storm water collected in secondary containment areas is retained, inspected, and tested prior to discharging from the containment area. The containment walls also eliminate stormwater run-on to these areas. If the stormwater in the containment area is contaminated, it can be shipped or piped to the wastewater treatment plant to prevent mixing with uncontaminated storm water.

VI. Covered Storage or Manufacturing Areas:

Several material manufacturing areas, loading and unloading areas, and storage areas throughout the facility are covered to prevent storm water contamination.

VII. Storm Water Reduction:

3M Cordova utilizes buffer zones around the site to reduce the amount of storm water runoff from 3M owned property.

Sediment and Erosion Control

Sediment and erosion control is practiced at the facility to prevent erosion of plant areas from entering the stormwater. Controls include paving, gravel, and vegetation cover to prevent erosion.

Employee Training

All training related to the SWPPP is coordinated and documented in SOP 3002 *Personnel Training and Documentation* and SOP 1170 *Storm Water Containment Draining*. Identification of the components and goals of the SWPPP is incorporated into the current training program at the 3M Cordova Plant and current procedures such as preventative maintenance have been adjusted to specifically address stormwater pollution prevention. The schedule of this training follows the current training schedule outlined in SOP 3002.

Inspection Procedures

In addition to the permit required inspections, the wastewater treatment plant operators conduct daily inspections of the storm water ditches. The environmental engineer keeps the records of these inspections (a copy is provided in Appendix 5). The Process Specialists and Operators Team Leader are responsible for the storage tank inventories and inspection forms. Additionally, inspections of secondary control measures, pumps, pipes, pipe connections, etc. are carried out as part of the Preventive Maintenance Program, including MPM6131 (copy provided in Appendix 5).

SECTION 5
IMPLEMENTATION

IMPLEMENTATION SCHEDULE

The following was implemented at the 3M Cordova Plant by November 1, 1997:

- Evaluate and choose stormwater management controls to implement;
- Implement the improvements to the plan;
- Add SWPPP information to employee training, as appropriate;
- Add SWPPP information to inspections and follow-up procedures, as appropriate;
- Incorporate the new implementation plan into employee training; and
- Implement inspections required by the new implementation plan.

EMPLOYEE TRAINING

Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the SWPPP. The employee training program at the 3M Cordova Plant has incorporated the following components to satisfy the requirements of the SWPPP:

- A list of personnel to be trained;
- A training schedule; and
- Training topics to be covered, including spill response, good housekeeping, material management practices, and inspection of stormwater management controls.

Refer to SOP 3002 for details concerning training required by the SWPPP.

Summary of Stormwater Pollutants

Analytical Method	Component
EPA 624	Acetone
EPA 625	bis(2-Ethylhexyl)phthalate
ICP Metals	Iron
	Aluminum
	Antimony
	Arsenic
	Barium
	Chromium
	Cobalt
	Copper
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Selenium
	Thallium
	Titanium
	Zinc
Total Organic Nitrogen	
Ammonia Nitrogen	
Total Phosphorous	
Fluoride	
Sulfate	

Based on 2011-2015 Sample Results

Revised 2/15/16

Summary of Stormwater Pollutants

Analytical Method	Component
EPA 624	Acetone
EPA 625	bis(2-Ethylhexyl)phthalate
ICP Metals	Iron
	Aluminum
	Antimony
	Arsenic
	Barium
	Chromium
	Cobalt
	Copper
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Thallium
	Titanium
	Zinc
Total Organic Nitrogen	
Ammonia Nitrogen	
Total Phosphorous	
Fluoride	
Sulfate	

Based on 2011-2013 Sample Results

Revised 3/20/14

Summary of Typical Stormwater Pollutants

Analytical Method	Component
EPA 625	bis(2-Ethylhexyl)phthalate
ICP Metals	Iron
	Iron (Dissolved)
	Aluminum
	Antimony
	Arsenic
	Barium
	Chromium
	Cobalt
	Copper
	Lead
	Magnesium
	Manganese
	Molybdenum
	Nickel
	Thallium
	Titanium
	Zinc
Total Organic Nitrogen	
Ammonia Nitrogen	
Total Phosphorous	
Fluoride	
Sulfate	

Based on 2011 Sample Results

Revised 12/22/11

Year	EPA#	SW outfall	Pollutant
2014	122	002 (comp	Lead
2014	128	002 (comp	Zinc
2014	114	003 (comp	Antimony
2014	124	003 (comp	Nickel
2014	114	004 (Comp	Antimony
2014	122	004 (Comp	Lead
2014	124	004 (Comp	Nickel
2014	128	004 (Comp	Zinc
2015	128	002 (comp	Zinc
2015	114	003 (comp	Antimony
2015	115	003 (comp	Arsenic
2015	122	003 (comp	Lead
2015	124	003 (comp	Nickel
2015	125	003 (comp	Selenium
2015	128	003 (comp	Zinc
2015	115	004 (Comp	Arsenic
2015	122	004 (Comp	Lead
2015	124	004 (Comp	Nickel
2015	128	004 (Comp	Zinc

Row Labels

- **Nickel**
  - **2014**
    - 003 (composite)
    - 004 (Composite)
  - **2015**
    - 003 (composite)
    - 004 (Composite)
- **Antimony**
  - **2014**
    - 003 (composite)
    - 004 (Composite)
  - **2015**
    - 003 (composite)
- **Arsenic**
  - **2015**
    - 003 (composite)
    - 004 (Composite)
- **Lead**
  - **2014**
    - 002 (composite)
    - 004 (Composite)
  - **2015**
    - 003 (composite)
    - 004 (Composite)
- **Selenium**
  - **2015**
    - 003 (composite)
- **Zinc**
  - **2014**
    - 002 (composite)
    - 004 (Composite)
  - **2015**
    - 002 (composite)
    - 003 (composite)
    - 004 (Composite)
- **Grand Total**

SECTION 6

RECORDKEEPING AND REPORTING

STORMWATER POLLUTION PREVENTION PLAN REPORTING

The SWPPP, along with any amendments, must be made available to the Illinois Environmental Protection Agency (IEPA) or United States Environmental Protection Agency (USEPA) upon request. The SWPPP also must be made available to the public under Section 308(b) of the CWA by allowing viewing of the Plan at the facility or by choosing to copy the Plan and sending it to the party making the request. The permittee may claim any portion of the SWPPP as confidential in accordance with 40 CFR Part 2 and does not have to release any portion of the plan describing facility security measures.

Also, the IEPA may notify the 3M Cordova Plant at any time that the Plan does not meet the requirements of IEPA NPDES Permit No. IL 0003140, Special Condition 12. After such notification, the 3M Cordova Plant will have 30 days to make the required changes, unless IEPA specifies otherwise. Furthermore, a written certification that verifies the implementation of the necessary changes must be submitted to the IEPA.

ANNUAL INSPECTION REPORTING

EVALUATION OF THE STORM WATER POLLUTION PREVENTION PLAN

Qualified personnel will conduct an annual facility inspection and evaluation of the SWPPP to verify that all elements of the Plan, including the site map, new implementation plan, potential pollutant sources, and structural and non-structural controls to reduce pollutants in stormwater discharges are accurate. This site inspection and evaluation shall include a visual inspection of the following areas and shall evaluate if controls are operating correctly:

- Material handling areas and other potential sources of pollution entering the drainage system;
- Structural and stormwater management measures;
- Sediment and control measures;
- Equipment needed to implement the plan (i.e., spill response equipment).

Observations that require a response and the subsequent appropriate responses must be retained as part of the Plan.

A report summarizing this inspection shall be completed with the following components:

- Inspection reports, including the signature of the authorized facility employee conducting the inspection and the dates the inspections were conducted;
- Results of the inspection;
- Major observations relating to the implementation of the SWPPP;
- Documentation of events such as spills, leaks, and treatment equipment malfunctions which would require an inspection; results of subsequent inspections; corrective actions taken as a result of the inspections;
- Record keeping to improve controls and to assist in monitoring; and
- Actions taken as a result of the evaluation.

The report must be signed by the authorized facility employee conducting the inspection and submitted annually to the IEPA. All amendments and annual reports must be retained as part of the plan.

The plan shall be completed within 180 days of the effective date of the NPDES permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of the permit. When the plan has been developed and implemented it shall be maintained in accordance with all requirements of Special Condition 12. The annual inspection reports shall be submitted to the IEPA no later than March 1 of each year. Each report shall contain information from the previous year.

STORMWATER SAMPLING REPORTING

IEPA NPDES Permit No. IL0003140 requires storm water monitoring for Outfalls 002, 003, and 004 (outfalls A, C, and D). The storm water monitoring must be conducted once per quarter for total iron and flow. All other parameters must be conducted on an annual basis and the results submitted to the IEPA with the December Discharge Monitoring Report. The requirements of NPDES permit no. IL0003140 are detailed in Appendix 2.

The following table summarizes pollutants detected in recent sample data. Results that were below the method reporting limit were not included in the table. The complete results for all storm water monitoring data are kept with the Discharge Monitoring Report (DMR) support documentation.

RECORDKEEPING

The SWPPP will be updated as necessary and for any of the following conditions: **1)** if the aforementioned annual inspection indicates that amendments are needed, **2)** if there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants; or **3)** if the 3M Cordova Plant is in violation of any of the conditions of the IEPA NPDES Permit No. IL 0003140 or has not achieved the general objective of controlling pollutants in stormwater discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the IEPA for review upon request. Also, the IEPA may notify the 3M Cordova Plant at any time that the Plan does not meet the requirements of IEPA NPDES Permit No. IL 0003140, Special Condition 12. After such notification, the 3M Cordova Plant will have 30 days to make the required changes, unless IEPA specifies otherwise. Furthermore, a written certification that verifies the implementation of the necessary changes must be submitted to the IEPA.

The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

APPENDIX 1

MATERIALS STORED IN THE DRUM STORAGE AREA

Note: The solvent storage tank is in service but not currently in use

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
	Generator: 3M Cordova (ILD054236443) CORD, BE				
	TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN				
118555	Light Water	0.0	NONE	2679	P
139414	Contaminated Butyl Acrylate	3.0	D001	2372	P
175162	Acidic non-pump low fluorine wastes	8.0	D002	2039	P
175842	F-33303 Bottoms	3.0, 8.0	D001, D002	225707	P
175961	R-27076 Scrap Product	3.0	D001, D018	302	P
176114	Urethane Poly Sol W/ Heptane	3.0	D001	836	P
176136	Filters & Acrylate Polymer Non-Halogenated	0.0	NONE	6439	P
176289	R-22050 Scrap Product	3.0	D001, D018	309	P
176384	Oil & Oil Dry	0.0	MN04, NONE	2948	P
176557	Lab Sampling Scrap drum	3.0	D001, D007, D018, D035, F003, F005	176335	P
176576	Pumpable Cell system wastes	8.0	D002, D004	17564	P
176611	Scrap Foral Resin	0.0	NONE	9300	P
176628	RM-211326 t-amyl hydroperoxide	5.2	D001, D003	627	P
176687	RM Emulsion	0.0	NONE	2540	P
176718	Epoxy Resin Solution Part B	0.0	NONE	100	P
176786	Aerosols ORM-D	98.0	D001, D035	495	P
176975	HF Contaminated Flex Ducting and Haz-Mat Suits	8.0	D002	3408	P
177009	Scotchast Flame retardant Compound Part A	0.0	NONE	175	P
177047	Plastic Scrubber Material	0.0	NONE	861	P
177091	Scrap RM-250760 TAPEH	5.2	D001, D003	494	P
177119	Paint Cans	0.0	NONE	200	P
177197	MC-58 spill cleanup	0.0	NONE	2009	P
194374	Sodium Bisulfite	8.0	D002	186	P
198495	TDX Monomer Mixtures Inhibited	8.0, 3.0	D001, D002	6132	P
201414	Non-Regulated Empty Wetted Lupersol Bags/Boxes	0.0	NONE	388	P
217435	D001, D018 Haz Waste Multiphase Drum	3.0	D001, D018	241161	P
235944	Epoxy Resin & Bisphenol A - Unreacted	0.0	NONE	13523	P
236775	Scrap HEDTA	0.0	NONE	100	P
237019	FC Building Sewer Cleanout	0.0	NONE	1307	P
237085	F-33348 recovered FC from alkylation	0.0	NONE	82222	P
237118	Pigmented Epoxy Resin	0.0	NONE	210	P
237154	Ioban Adhesive	3.0	D001, D018	102	P
237189	Acrylamide in Solvent Mix	3.0	D001, F003	6951	P
237192	Fastbond Insulation adhesive	0.0	NONE	525	P
237239	Empty for Destruction - Residue UN1093	3.0, 6.1	NONE	1835	P
237276	ACRYLATE POLY SOL >50%H20 w/ NaOH	8.0	D002	44480	P
243322	D001 UN1993 Pumpable Special	3.0	D001, D018	26254	P
243516	Flammable UN1993 Pumpable Regular	3.0	D001	45	P
243904	Pumpable Acrylates	8.0, 3.0	D001, D002	8819	P
269875	Monoethanolamine	8.0	D002	50	P
270514	Dimethylformamide	3.0	D001	7761	P
277125	Ethyl Acrylate and n-Vinyl-2-Pyrrolidone	3.0, 6.1	D001, MN01	1320	P
277513	Scrap Acrylamide	6.1	MN01, U007	140	P
295628	D035 filters	9.0	D035	1948	P
296046	R-24380 Scrap Product	0.0	NONE	7184	P
296078	Acryloyl Chloride Empty	6.1, 3.0, 8.0	D001, D002, D003, MN01	14400	P

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
	Generator: 3M Cordova (ILD054236443) CORD (Contd...)				
	TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN (Contd...)				
296102	RD-2784 R-22939 Scrap Product	0.0	NONE	2540	P
296134	2-OA PIM Syrup for Super Sticky Notes	0.0	NONE	11657	P
296143	URETHANE POLY SOL W/ HIGH TOLUENE	3.0	D001	1237	P
296277	F-33399 Reactor Bottoms	3.0	D001	13605	P
296504	Octylacrylamide	0.0	NONE	1460	P
296637	MC-1445 Scrap Batch w/ Heptane & Acetone	3.0	D001, F003	993	P
296793	C4 Acid Fluoride Tank Cleanout	8.0	D002	26842	P
297004	Fluorochemical Gaskets	8.0	D002	1346	P
297024	KarenzMT PE1 Empty Container SNUR	0.0	NONE	85	P
297025	KarenzMT PE1 Scrap RM SNUR	0.0	NONE	15	P
297255	R-27691 Coplymer	0.0	NONE	36860	P
319392	Non-Regulated Empty Peroxide Bags In Water	0.0	NONE	6123	P
320553	Empty Oxidizer Bags	5.1	D001	439	P
330209	Non-Regulated, Pumpable, Fluorinated Liquid	0.0	NONE	6650	P
330719	Empty Drums For Destruction	0.0	NONE	5913	P
338842	Monomer/Solvent	3.0	D001	14316	P
355389	HFP dimer silica gel	6.1	MN01, NONE	1832	P
355996	R-27074 Scrap Product	3.0	D001, D018	31708	P
356017	R-27006 Scrap Product	3.0	D001, D035	92	P
356115	BA Free Acrylate Polymer Clean Adhesive	3.0	D001, D018	8003	P
356122	DS-2072 3M(TM) CARTRIDGE ADHESIVE	0.0	NONE	13478	P
356126	Acrylate Polymer Solution	3.0	D001	11131	P
356147	2-OA PIM Syrup for Super Sticky Notes & Filters	0.0	NONE	1107	P
356153	Filters, Acrylate Copolymers, & Water	0.0	NONE	30202	P
356175	Empty Carbon Tet Bags	6.1, 8.0	D002, MN01	105	P
356213	Polymer Ropes	0.0	NONE	33768	P
356274	RD-971, MC-952, RD-2740, scrap product	3.0	D001, D018	12347	P
356504	Acetyltributyl Citrate - OOS material	0.0	NONE	433	P
356638	Duck Pond Cleanup	0.0	NONE	425	P
356868	2-MBA Monomer Strip	3.0	D001, F003	56877	P
357022	IPA & Urethane Polymer Salt	3.0	D001	694	P
357126	Scrap Chemical Hoses	0.0	NONE	7144	P
357144	Triethylene Diamine (DABCO)	0.0	NONE	52	P
357146	Scrap RD-0725	3.0	D001, D018	784	P
357147	R-24803 Scrap Batch	3.0, 6.1	D001, D035, MN01	1130	P
357196	Potassium Fluoride and Water	6.1	MN01, NONE	900	P
357264	Empty for Destruction - Residue UN2927	6.1, 8.0	NONE	4301	P
415964	F-33197 acetonitrile strip	3.0	D001	1337	P
415965	FM-4447 KOH-methanol-DIBK-inerts	3.0, 8.0	D001, D002	2297	P
416165	Sewer Scrap	0.0	NONE	12153	P
416166	Oil & Oil Dry	0.0	MN04, NONE	250	P
416188	Empty Containers - Plastic	0.0	NONE	1240	P
416267	R-24805 - Water borne LAB for sticky notes	9.0	D035	303	P
416586	Solid Epoxy Resin & Diblend	0.0	NONE	2048	P

Generator: 3M Cordova (ILD054236443) CORD (Contd...)
TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN (Contd...)

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
	scrubber solids				
416615	D001 D018 D035 Filter waste	3.0	D001, D018, D035, F003, F005	234	P
416663	Acrylate Polymer Solution w/ Ethyl Acetate	3.0	D001, F003	856	P
416704	Recovered FC Water Wash	0.0	NONE	73613	P
416769	Scotchcast Brand Resin #255, Part A RD-352	9.0	D004, D008	325	P
416805	Scrap Acrylate Monomer MC-4015	3.0	D001, F005	3960	P
416828	Non-Pumpable Rags/Glove and Anti-Stat	8.0	D002	636	P
417023	Corrosive Primary Sludge D002	8.0	D002	90575	P
417081	T.O. Column Polypropylene & Fiberglass	8.0	D002	3596	P
417114	Dodecenylsuccinic Anhydride	0.0	NONE	424	P
417139	Triethylamine	3.0, 8.0	D001, D002, U404	80	P
417165	Diglyme for drying-Coupling	3.0	D001	1312	P
417178	Coupling RX Bottoms	3.0, 6.1	D001, MN01	7075	P
417187	Unreacted MC-327	0.0	NONE	2592	P
417276	Empty for Destruction - Residue UN3267	8.0	NONE	89	P
417308	Sulfuric Acid Spill Cleanup	8.0	D002	65	P
419158	F003 Non-Pump	3.0	D001, F003	324	P
419352	F003 Pourable	3.0	D001, F003	6114	P
447492	Vazo Solutions	3.0	D001	719	P
475586	Ethanol and inert	3.0	D001	1400	P
475663	Water Wash of R 56353	0.0	NONE	7100	P
475976	F-33169 high boilers	0.0	NONE	10907	P
476019	Flammable First Water Wash	3.0	D001	261464	P
476055	R-24247 Scrap Product	0.0	NONE	112	P
476105	R-27270, R-27271, R-27272, & R-27292 Scrap Product	0.0	NONE	24765	P
476165	F-15211 Post Cut Scrap	0.0	NONE	33488	P
476169	R-246021 Scrap w/ Additional Solvent	3.0	D001, D018	3233	P
476386	Propylene Glycol, Water & Oil Dry	0.0	NONE	476	P
476482	Bulk Waste Fuel - 2013	3.0	D001, D018, D035, F003, F005	3989200	P
476894	n-Methyl Pyrrolidone	0.0	NONE	450	P
477028	Acrylate Polymer and Tackifier Scrap Product	0.0	NONE	2324	P
477031	Acrylate Polymer A+	0.0	NONE	9809	P
477066	FC Strainer Solids	8.0	D002, D004	4280	P
477229	PPVE Bottoms & Diglyme	0.0	NONE	23951	P
477242	PTBA Spill cleanup	0.0	NONE	455	P
477281	Empty for Destruction - Residue Non-Regulated	0.0	NONE	5551	P
508474	Empty Nonregulated Composite Drums for Destruction	0.0	NONE	41774	P
535428	HFP reaction bottoms	3.0, 6.1	D001, MN01	15555	P
535574	Scrap intermediate IOA product	6.1	MN01, NONE	17830	P
535967	243128 solution polymer filters, spills	3.0	D001	1637	P
535989	F-33169 low boilers	0.0	NONE	2196	P
536118	R-27272 Product & Filters	0.0	NONE	5340	P
536543	20% CHG Solution	0.0	NONE	1060	P
536674	Diglyme & Gravel Spill Cleanup	3.0	D001	21625	P
536856	Bisaziridine Solution Scrap	3.0	D001, D018	810	P
536877	2-Octyl Acrylate bottoms, drum	8.0	D002	6802	P

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
	Generator: 3M Cordova (ILD054236443) CORD (Contd...)				
	TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN (Contd...)				
536939	F-8469, First Distillation Bottoms	8.0	D002	166	P
536991	TO Header Flush	0.0	NONE	540	P
537049	High Boiler Mud Tank Cleanout	8.0	D002, D004, MN01	2132	P
537056	HF Contaminated Low Weight Materials	8.0	D002	4211	P
537107	Scrubber Solids	8.0	D002	2908	P
537183	Talc Microcrystalline (Nicron 402)	0.0	NONE	375	P
537227	2073 Pre-Mix Mischarge	3.0, 6.1, 8.0	D001, D002, MN01	38529	P
537254	Scrubber Packing and Material	0.0	NONE	715	P
537304	Empty for Destruction - Residue UN1173	3.0	NONE	701	P
540559	Acid, Liquid, Fluorochemical	8.0	D002	54250	P
555392	Non-Regulated Acrylate Polymer	0.0	NONE	141815	P
565037	Liquid Latex	0.0	NONE	226332	P
595798	Low BTU Filtering Media with Fluorochemical	0.0	NONE	146219	P
595993	Carbon Filtering Media with Fluorochemical	0.0	NONE	1098	P
595998	Urethane Prepolymer MC-628	6.1	MN01, NONE	467	P
596195	R-27364 Filters & Product	3.0	D001	870	P
596227	Acrylate Polymer Solution w/solvent	3.0	D001, D018	52823	P
596248	POURABLE Acrylate Polymer & Solvent	3.0	D001	5048	P
596281	HMDS product and drain line flush	3.0	D001, F003	1461	P
596376	R-24769 Empty RM drum NNDMA	6.1	NONE	2509	P
596389	MC-957, RD-973 and RD-2773 Scrap Product	3.0	D001	4451	P
596416	RD-0841 Scrap product - solids with free liquid	3.0	D001	640	P
596625	Vazo Solutions	3.0	D001, D003, F003	407	P
596735	Luperox	5.2	D001, D003	45	P
596736	Intermediate Resin	0.0	NONE	104	P
597181	Voranol 220-530 Polyol	0.0	NONE	500	P
597315	Empty for Destruction - Residue UN2290	6.1	NONE	293	P
597325	Scrap Ethane Sulfonic Acid	8.0	D002	160	P
616335	Non-Regulated Isooctyl Acrylate Monomer	0.0	NONE	1963	P
619876	D001 D018 D035 Regular Pumpable	3.0	D001, D018, D035	227	P
621137	D001 D002 D018 Regular Non-Pump Non-Halogenated	3.0, 8.0	D001, D002, D018	92408	P
621331	Monomer Sample Drum	3.0, 8.0	D001, D002, D018	239	P
624629	Empty Containers for Destruction	0.0	NONE	10338	P
625696	Empty Drums for Destruction	0.0	NONE	31689	P
628471	RCRA-Empty Pails	0.0	NONE	142	P
648435	Waste Sludge from Waste Water	0.0	NONE	15050	P
655811	Adogen, Diglyme & Methyl Potassium Sulfate	3.0, 8.0	D001, D002, D007	571610	P
655993	243128 repulp filters, spill, ppe	3.0	D001	1785	P
656152	Flake MDI empties - Crushed Drums	6.1	MN01, NONE	1977	P
656155	Amine Stabilization Bottoms	8.0	D002, MN01	296803	P
656208	Super Sacks Di-Blend Resin	0.0	NONE	73344	P
656296	RD-2813 Scrap product	3.0	D001, D018	50874	P
656393	R-22865, R-22866 & R-22867 Scrap Product	3.0	D001	21489	P
656442	Monomer and filter waste streams	3.0	D001	627	P
656527	A+ adhesive - scrap	0.0	NONE	23975	P
656533	RD-2905, MC-897, RD-1292	3.0	D001, D018, F003,	1113	P

Generator: 3M Cordova (ILD054236443) CORD (Contd...)
TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN (Contd...)

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
656857	Acrylate Polymer Solution Filters & Scrap	3.0	F005 D001	1640	P
656873	Diacetone Acrylamide empty packaging	0.0	NONE	27	P
656911	Aryl Acrylate in Solvent	3.0	D001, F003	600	P
656977	Solvated Acrylate Copolymer, Non-Pumpable	3.0	D001, F003	486	P
657071	Scrap Product Barrier Film Adhesive	3.0	D001, F003	1721	P
657192	Recovered Alamine 336 from HQ-115	8.0, 3.0	D001, D002	2040	P
657247	Propionic Anhydride	8.0	D002	224	P
657329	Empty for Destruction - Residue UN2810	6.1	NONE	1017	P
677359	Triethylamine	3.0, 8.0	D001, D002, D018	46	P
701904	Bulk Monomer Bottoms to Cottage Grove	8.0	D002	1520820	P
715639	Sodium styrenesulfonate	0.0	NONE	220	P
715672	Non-Regulated F-15164	0.0	NONE	12409	P
715792	Regulated Sulfonated Perfluorobutane	8.0	D002	96	P
715983	Light Water and absorbent	0.0	NONE	4072	P
716107	R-24247 Product & Filters	0.0	NONE	343	P
716171	F-8879 Salt Drop	6.1, 8.0	D002, MN01	29500	P
716204	Substituted Benzophenone	3.0	D001	748	P
716449	F-33262, F-17013 Methyl PFE High boilers	0.0	NONE	345	P
716479	Coag Polymer and Water	9.0	D007	131589	P
716623	Urethane Copolymer R-24312	0.0	NONE	2660	P
716886	F-33296 Aqueous Phase	0.0	NONE	502525	P
716921	Epoxy Resin, Solid	0.0	NONE	1700	P
716936	IOA/2-OA Bulk Monomer Bottoms	8.0	D002	80180	P
716982	Adipic Dihydrazide	0.0	NONE	105	P
717236	MC-883 Mischarge	3.0, 8.0	D001, D002	55964	P
717288	IOA/ABP Premix	0.0	NONE	7	P
717297	2-OA Monomer	0.0	NONE	125	P
726057	Refrigerator oil, used	9.0	D008	2662	P
760456	1-Ethenyl-2-pyrrolidone	6.1	MN01, NONE	230	P
775465	Non-Regulated Pourable Gel Former Chemicals	0.0	NONE	100	P
775839	Acid receiver pre-cut	3.0, 8.0	D001, D002	17656	P
776051	MC-4076 from MC-816	3.0	D001	5706	P
776217	Scrap Distillate	3.0	D001	5856	P
776243	Rags Bags Gloves	3.0	D001	500	P
776248	ACRYLATE POLY SOL >50%H20	0.0	NONE	509	P
776249	FILTERS W/ ACRYLATE POLY SOL W/IOA	0.0	NONE	2949	P
776254	GMP FILTERS / POLYMER / SOLVENT	3.0	D001	6281	P
776304	243128 Polymelt Low Solids Product	3.0	D001	8056	P
776322	Solid Epoxy Resin	0.0	NONE	505	P
776386	RD-1253, MC-2026 scrap product	3.0	D001, D018	5072	P
776647	High Solids Adhesive with EA and Heptane	3.0	D001, F003	5343	P
776852	Chemdet Mixed Solvents, Primarily Xylene	3.0	D001, D018, D035, F003, F005	810	P
777098	Scrap Rhodacal	0.0	NONE	473	P
777147	Plastic Scrubber Packing	0.0	NONE	5014	P

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
	Generator: 3M Cordova (ILD054236443) CORD (Contd...)				
	TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN (Contd...)				
777161	COSORB FILTERS	0.0	NONE	1289	P
777258	DMDS Spill Cleanup	3.0, 6.1	D001, D003, MN01	121	P
777296	PTBA Fractionation Waste	8.0	D002	157383	P
777304	Hydroxy Ethyl Acrylate	8.0, 6.1	D002, MN01	445	P
777397	F-8879 Salt Drop	6.1	MN01, NONE	194491	P
797459	Catechol Spill Cleanup	6.1	MN01, NONE	485	P
804467	Special Sludge Non-Halogenated	6.1	MN01, NONE	95	P
804758	DOH Ignitable Pourable Halogenated TCLP	3.0	D001, D018	54	P
805049	DOH Non-Pump Non-Halogenated Low BTU	0.0	NONE	4363	P
805437	DOT Ignitable Pumpable Halogenated	3.0	D001	8482	P
806019	DOH Ignitable Non-Pump Halogenated	3.0	D001	779	P
806116	DOH Ignitable Pourable Non-Halogenated	3.0	D001	3930	P
806213	Empty Drums for Destruction	0.0	NONE	1935	P
836077	Universal waste--Mercury-containing equipment	8.0, 6.1	D009	8	P
836261	COSORB	0.0	NONE	1545	P
836267	FILTERS / POLYMER / SOLVENT	3.0	D001, D018	2334	P
836275	Filters/AcrylatePolymer/EthylAcetate/Tackifier	3.0	D001	1513	P
836497	MC-1133 scrap product - filtered cake	0.0	NONE	642	P
836596	Used Oil	9.0	D008, MN04	3760	P
836874	ABP in 2-EHA Filters	3.0	D001, F003	90	P
836883	SS Tank Trailer Cleanout	0.0	NONE	613	P
836948	2-Octyl Acrylate bulk monomer bottoms to CGI	8.0	D002	85420	P
837059	Mixed Solvent, Polymer and Water Pourable	3.0	D001, F003	172	P
837114	Acidic non-pump low fluorine wastes	8.0	D002	3222	P
837146	Empty IEM containers	0.0	NONE	836	P
837152	Scotchcast Electrical Resin Part B	0.0	NONE	218	P
837194	Bulk Methanol/Ethyl Acetate	3.0	D001	105840	P
837203	Bulk Water Wash	3.0	D001	110160	P
837367	Empty for Destruction - Residue UN1993	3.0	NONE	6	P
837369	Empty for Destruction - Residue UN1199	6.1, 3.0	MN01, NONE	41	P
861115	Corrosive Solid (Basic)	8.0	D002	43104	P
861988	Pourable Polymerizable	0.0	NONE	100	P
868417	Pails Contaminated With DBU	8.0	D002	38	P
895307	RM-211326 t-amyl hydroperoxide	5.2	D001, D003	9	P
895983	ODI isocyanate in xylene	3.0	D001, F003	406	P
896067	24-3128 GMP filtration waste	3.0	D001	1519	P
896092	D002, D004 UN1760 Pumpable Special	8.0	D002, D004	119969	P
896243	2-Methylbutyl Acrylate	3.0	D001	157	P
896269	Ethyl Acetate / Toluene / Acrylate Polymer Sol	3.0	D001, D018	16330	P
896706	Waste Brine Solution	3.0	D001	815	P
896718	R-24826 filters/rags/gloves etc	3.0	D001	2786	P
896812	Halogenated Non-Pump Low BTU Chemicals	9.0	D007, D009	13117	P
896888	Acrylate Polymer Scrap Product	3.0	D001, F003	350	P
896969	F003 D018 UN1993 Regular Pump	3.0	D001, D018, F003	274	P

Generator: Generator: 3M Cordova (ILD054236443) CORD, BE (Contd...)
TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN (Contd...)

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
896971	Non-Halogenated F003 D018 UN1993 Reg. Pump	3.0	D001, D018, F003	385	P
897238	Non-Halogenated Generic FF-30013 Nitrile Distillation Bottoms	8.0, 3.0	D001, D002	50620	P
897383	Empty for Destruction - Residue UN2381	3.0, 6.1	NONE	10316	P
901577	RM-213336 SNUR Empties, PPE	4.1	D001, D003	61	P
955295	Nonregulated PBSF and Adsorbent	0.0	NONE	2093	P
955653	MC-883 Drum Bottoms	8.0, 3.0	D001, D002, D010	99387	P
955659	F-33197 filters	6.1	MN01, NONE	58	P
955663	RM-116820 potassium cyanate	0.0	NONE	165	P
956129	R-27076 Filter/Product	3.0	D001, D018	1836	P
956164	D001 D007 D018 UN1993	3.0	D001, D007, D018	60088	P
956282	Non-Pump Regular Acrylate Poly Sol W/ Acetone,methylhexanes,heptane	3.0	D001, D018	1517	P
956286	SCRAP RM MDI	6.1	MN01, NONE	198	P
956304	COAG	0.0	NONE	1933	P
956316	Empty Bags w/ Residue	0.0	NONE	8289	P
956419	F-33399 C5 Ketone Absorbent Column waste	0.0	NONE	991	P
956458	R-24775 and R-27060 Scrap product	3.0	D001	11385	P
956901	Acrylate Polymer Spill Cleanup	3.0	D001, F003	175	P
957116	HFE 7000 Fractionation Bottoms	3.0	D001	500	P
957166	Optically Clear Adhesive Scrap Product	3.0	D001, D035, F005	63730	P
957178	Scotchcast Resin Drums	3.0	D001, D018, F003, F005	60	P
957216	F-8469 First Distillation Bottoms	8.0	D002	391861	P
957251	FF-30013 Stripped Methanol	3.0	D001, F003	26136	P
957292	R-24002 Mischarge	0.0	NONE	39016	P
957321	Perfluoro Compounds and Water	0.0	NONE	198	P
957393	Empty for Destruction - Residue UN3265	8.0	NONE	15258	P
957394	Empty for Destruction - Residue UN1903	8.0	NONE	172	P
957433	IOA polymer & water	0.0	NONE	22575	P
958495	Pourable High BTU Chemicals	8.0	D002	5458	P
970556	Nonregulated Neutral Fluorinert Still Bottoms	0.0	NONE	28120	P
977471	Methyl Acrylate	3.0	D001	251	P
985371	Monomer Mischarge (D001, D002)	3.0, 8.0	D001, D002	257270	P
986374	COD Vials	8.0	D002, D007, D009, D011	125	P

End of data for **Generator: 3M Cordova (ILD054236443) CORD, BE**

Profile	Profile Description	Haz. Class	Waste Numbers	Volume	Unit
	Generator: 3M Cottage Grove Center (MND006172969) CHEM, BE				
	TSD: 3M Cottage Grove Center (MND006172969), Cottage Grove, MN				
176576	Pumpable Cell system wastes	8.0	D002, D004	15624	P
177251	F-8469 First Distillation Bottoms	8.0	D002	115405	P
417124	Liquid Latex	0.0	NONE	14400	P
777117	SCRAP RM MDI	6.1	MN01, NONE	226	P
836077	Universal waste--Mercury-containing equipment	8.0, 6.1	D009	8	P
986374	COD Vials	8.0	D002, D007, D009, D011	271	P
	End of data for **Generator: 3M Cottage Grove Center (MND006172969) CHEM, BE**				

End of Summary Report

12/29/2016	WRR	ETHYL ACETATE	41,140	1-TT	SS-56	008431706FLE	1/3/2017	17	1/20/2017	
1/5/2017	WRR	ETHYL ACETATE	42,060	1-TT	SS-120	008431707FLE	1/9/2017	11	1/20/2017	
1/11/2017	WRR	ETHYL ACETATE	44,100	1-TT	SS-56	008431708FLE	1/17/2017	8	1/25/2017	
1/17/2017	WRR	ETHYL ACETATE	44,780	1-TT	SS-162	008431785FLE	1/18/2017	7	1/25/2017	
1/18/2017	WRR	ETHYL ACETATE	36,520	1-TT	SS-68	008431786FLE	1/20/2017	28	2/17/2017	
1/24/2017	WRR	ETHYL ACETATE	43,260	1-TT	SS-162	008431787FLE	1/29/2017	19	2/17/2017	
1/30/2017	WRR	ETHYL ACETATE	44,520	1-TT	SS-118	008431788FLE	1/31/2017	17	2/17/2017	
1/10/2017	WRR	ACETONE	39,360	1-TT	SS-99	008431712FLE	1/10/2017	10	1/20/2017	
1/20/2017	WRR	ACETONE	34,580	1-TT	SS-61	008431713FLE	1/25/2017	23	2/17/2017	
2/7/2017	WRR	ACETONE	38,640	1-TT		008431715FLE	2/9/2017	11	2/20/2017	
2/2/2017	WRR	ETHYL ACETATE	44,040	1-TT		008431789FLE	2/7/2017	13	2/20/2017	
2/9/2017	WRR	ETHYL ACETATE	44,200	1-TT		008431804FLE	2/14/2017	17	3/3/2017	
2/14/2017	WRR	ETHYL ACETATE	40,920	1-TT		008431805FLE	2/20/2017	11	3/3/2017	
2/23/2017	WRR	ETHYL ACETATE	42,680	1-TT	SS-56	008431806FLE	2/28/2017	14	3/14/2017	
2/21/2017	WRR	ACETONE	33,760	1-TT	SS-76	008431816FLE	2/27/2017	15	3/14/2017	
2/20/2017	WRR	SOLVENT	43,720	1-TT	SS-118	008431866FLE	2/22/2017	12	3/6/2017	
2/28/2017	WRR	ETHYL ACETATE	39,960	1-TT	SS-22	008431807FLE	3/2/2017	55	4/26/2017	
3/7/2017	WRR	ETHYL ACETATE	39,940	1-TT	SS-22	008431809FLE	3/13/2017	44	4/26/2017	
3/2/2017	WRR	ACETONE	39,020	1-TT	SS-40	008431819FLE	3/2/2017	55	4/26/2017	
3/10/2017	WRR	ACETONE	38,720	1-TT	SS-23	008431820FLE	3/15/2017	42	4/26/2017	
3/20/2017	WRR	ETHYL ACETATE	42,160	1-TT	SS-22	008431873FLE	3/27/2017	30	4/26/2017	
3/23/2017	WRR	ETHYL ACETATE	44,480	1-TT	SS-118	008431874FLE	3/28/2017	29	4/26/2017	
3/17/2017	WRR	ACETONE	41,680	1-TT	SS-71	008431877FLE	3/21/2017	36	4/26/2017	
3/24/2017	WRR	ACETONE	36,440	1-TT	SS-70	008431878FLE	3/28/2017	29	4/26/2017	
3/29/2017	WRR	ETHYL ACETATE	42,700	1-TT	SS-22	008431875FLE	4/4/2017	22	4/26/2017	
4/3/2017	WRR	ETHYL ACETATE	43,420	1-TT	SS-54	008431876FLE	4/5/2017	21	4/26/2017	
4/17/2017	WRR	ACETONE	36,240	1-TT	SS-89	008431879FLE	4/19/2017	12	5/1/2017	
4/7/2017	WRR	ETHYL ACETATE	44,200	1-TT	SS-162	010372901FLE	4/10/2017	16	4/26/2017	
4/14/2017	WRR	ETHYL ACETATE	39,840	1-TT	SS-40	010372902FLE	4/19/2017	12	5/1/2017	
4/18/2017	WRR	ETHYL ACETATE	40,880	1-TT	SS-25	010372903FLE	4/26/2017	29	5/25/2017	
5/2/2017	WRR	ACETONE	39,110	1-TT	SS-43	008431880FLE	5/10/2017	14	5/24/2017	
5/10/2017	WRR	ACETONE	39,700	1-TT	SS-83	008431881FLE	5/16/2017	8	5/24/2017	
4/24/817	WRR	ETHYL ACETATE	41,980	1-TT	SS-82	010372904FLE	5/4/2017	21	5/25/2017	
4/28/2017	WRR	ETHYL ACETATE	41,900	1-TT	SS-83	010372905FLE	5/9/2017	15	5/24/2017	
5/8/2017	WRR	ETHYL ACETATE	41,240	1-TT	SS-25	010372917FLE	5/12/2017	12	5/24/2017	
5/15/2017	WRR	ETHYL ACETATE	44,360	1-TT	SS-118	010372918FLE	5/19/2017	11	5/30/2017	
5/19/2017	WRR	ETHYL ACETATE	41,920	1-TT	SS-80	010372919FLE	5/23/2017	17	6/9/2017	
5/23/2017	WRR	ETHYL ACETATE	44,800	1-TT	SS-129	010372920FLE	5/27/2017	13	6/9/2017	
5/25/2017	WRR	ACETONE	38,560	1-TT	SS-74	010372933FLE	5/31/2017	9	6/9/2017	
6/1/2017	WRR	ETHYL ACETATE	43,380	1-TT	SS-118	010372921	6/6/2017	10	6/16/2017	
6/9/2017	WRR	ACETONE	40,970	1-TT	SS-227	010372934	6/13/2017	23	7/6/2017	
6/20/2017	WRR	ACETONE	39,510	1-TT	SS-227	010372935	6/20/2017	16	7/6/2017	
6/1/2017	WRR	ETHYL ACETATE	41,660	1-TT	SS-119	010372943	6/8/2017	28	7/6/2017	
6/9/2017	WRR	ETHYL ACETATE	45,700	1-TT	SS-130	010372944	6/12/2017	24	7/6/2017	
6/28/2017	WRR	ETHYL ACETATE	43,400	1-TT	SS-118	010372945	6/28/2017	13	7/11/2017	
6/29/2017	WRR	ETHYL ACETATE	40,780	1-TT	SS-142	010373026	6/29/2017	12	7/11/2017	
6/20/2017	WRR	ETHYL ACETATE	40,880	1-TT	SS-83	010373027	6/20/2017	21	7/11/2017	
6/20/2017	WRR	SOLVENT	36,580	1-TT	SS-99	010373031	6/20/2017	16	7/6/2017	
7/1/2017	WRR	ACETONE	39,740	1-TT	SS-22	010372936	7/1/2017	10	7/11/2017	
7/7/2017	WRR	ACETONE	35,200	1-TT	SS-118	010372937	7/7/2017	13	7/20/2017	
7/7/2017	WRR	ETHYL ACETATE	34,162	96-DRUMS	B-155	010372981	7/19/2017	34	8/22/2017	
7/21/2017	WRR	ETHYL ACETATE	30,261	96-DRUMS	B-138	010372982	7/30/2017	23	8/22/2017	
7/10/2017	WRR	ETHYL ACETATE	26,627	93-DRUMS	B-156	010372983	7/29/2017	24	8/22/2017	
8/21/2017	WRR	SOLVENT	41,280	1-TT	SS-81	010373060	8/21/2017	57	10/17/2017	
8/17/2017	WRR	ACETONE	39,100	1-TT	SS-118	010373052	8/17/2017	11	8/28/2017	
8/18/2017	WRR	ACETONE	38,180	1-TT	SS-77	010373053	8/18/2017	60	10/17/2017	
8/2/2017	WRR	ETHYL ACETATE	41,780	1-TT	SS-119	010373058	8/2/2017	20	8/22/2017	
8/11/2017	WRR	ETHYL ACETATE	43,380	1-TT	SS-119	010373059	8/11/2017	12	8/23/2017	
8/21/2017	WRR	ETHYL ACETATE	42,500	1-TT	SS-25	010373083	8/21/2017	57	10/17/2017	
8/31/2017	WRR	ETHYL ACETATE	45,300	1-TT	SS-130	010373084	8/31/2017	47	10/17/2017	
8/29/2017	WRR	ACETONE	42,400	1-TT	SS-119	010373093	8/29/2017	49	10/17/2017	
9/4/2017	WRR	ACETONE	40,220	1-TT	SS-37	010373054	9/4/2017	43	10/17/2017	
9/13/2017	WRR	ACETONE	39,100	1-TT	SS-82	010373055	9/18/2017	29	10/17/2017	
9/5/2017	WRR	ETHYL ACETATE	43,700	1-TT	SS-60	010373085	9/5/2017	42	10/17/2017	
9/7/2017	WRR	ETHYL ACETATE	43,640	1-TT	SS-122	010373086	9/13/2017	34	10/17/2017	
9/12/2017	WRR	ETHYL ACETATE	44,740	1-TT	SS-51	010373087	9/14/2017	33	10/17/2017	
9/13/2017	WRR	ETHYL ACETATE	42,940	1-TT	SS-119	010373104	9/19/2017	28	10/17/2017	
9/21/2017	WRR	ETHYL ACETATE	41,140	1-TT	SS-39	010373105	9/25/2017	22	10/17/2017	
9/25/2017	WRR	ETHYL ACETATE	41,400	1-TT	SS-78	010373106	9/26/2017	21	10/17/2017	

9/19/2017	WRR	SOLVENT	37,120	1-TT	SS-74	010373121	9/19/2017	28	10/17/2017	
10/16/2017	WRR	ETHYL ACETATE	44220	1-TT	SS-39	10373107	10/9/2017	8	10/17/2017	
10/16/2017	WRR	ETHYL ACETATE	45780	1-TT	SS-55	10373108	10/10/2017	7	10/17/2017	
10/16/2017	WRR	ETHYL ACETATE	43600	1-TT	SS-82	10373109	10/13/2017	11	10/24/2017	
10/3/2017	WRR	ACETONE	32280	1-TT	SS-19	10373110	10/3/2017	14	10/17/2017	
10/16/2017	WRR	ACETONE	38640	1-TT	SS-81	10373111	10/10/2017	7	10/17/2017	
10/31/2017	WRR	ACETONE	39540	1-TT	SS-82	10373112	10/30/2017	14	11/13/2017	
10/25/2017	WRR	ETHYL ACETATE	45160	1-TT	SS-55	10373122	10/23/2017	14	11/6/2017	
10/25/2017	WRR	ETHYL ACETATE	44980	1-TT	SS-65	10373124	10/24/2017	57	12/20/2017	
10/31/2017	WRR	ETHYL ACETATE	42060	1-TT	SS-74	10373126	10/30/2017	14	11/13/2017	
10/31/2017	WRR	ETHYL ACETATE	40020	1-TT	SS-71	10373127	10/31/2017	13	11/13/2017	
10/16/2017	WRR	SOLVENT	41860	1-TT	SS-118	10373130	10/11/2017	13	10/24/2017	
11/10/2017	WRR	ETHYL ACETATE	42100	1-TT		010373113FLE	11/8/2017	13	11/21/2017	
11/14/2017	WRR	ACETONE	42340	1 TT	SS-51	010373114FLE	11/20/2017	30	12/20/2017	
11/27/2017	WRR	ACETONE	39740	1-TT	SS-83	010373115FLE	11/27/2017	23	12/20/2017	
11/7/2017	WRR	ETHYL ACETATE	41760	1-TT	SS-83	010373128FLE	11/1/2017	12	11/13/2017	
11/6/2017	WRR	ETHYL ACETATE	42100	1-TT	SS-78	010373129FLE	11/6/2017	15	11/21/2017	
11/7/2017	WRR	SOLVENT	40480	1-TT	SS-39	010670607FLE	11/3/2017	18	11/21/2017	
11/10/2017	WRR	SOLVENT	41560	1-TT	SS-166	010670611FLE	11/7/2017	14	11/21/2017	
11/10/2017	WRR	ETHYL ACETATE	41620	1-TT	SS-23	010670612FLE	11/9/2017	12	11/21/2017	
11/9/2017	WRR	SOLVENT	44280	1-TT	SS-67	010670619FLE	11/14/2017	36	12/20/2017	
11/19/2017	WRR	ETHYL ACETATE	44380	1-TT	SS-71	010670620FLE	11/22/2017	28	12/20/2017	
11/18/2017	WRR	ETHYL ACETATE	43980	1-TT	SS-170	010670621FLE	11/28/2017	22	12/20/2017	
11/29/2017	WRR	ETHYL ACETATE	44850	1-TT	SS-53	010670622FLE	11/29/2017	21	12/20/2017	
12/1/2017	WRR	ACETONE	41,860	1-TT	SS-71	010373141FLE	12/6/2017	14	12/20/2017	
12/14/2017	WRR	ACETONE	39,840	1-TT	SS-55	010373142FLE	12/15/2017	31	1/15/2018	
11/30/2017	WRR	ETHYL ACETATE	42,320	1-TT	SS-39	010670623FLE	12/1/2017	19	12/20/2017	
12/7/2017	WRR	ETHYL ACETATE	40,580	1-TT	SS-170	010670624FLE	12/7/2017	13	12/20/2017	
12/11/2017	WRR	ETHYL ACETATE	42,110	1-TT	SS-44	010670634FLE	12/15/2017	31	1/15/2018	
12/15/2017	WRR	ETHYL ACETATE	44,980	1-TT	SS-87	010670635FLE	12/19/2017	27	1/15/2018	
12/20/2017	WRR	ETHYL ACETATE	43,500	1-TT	SS-39	010670636FLE	12/25/2017	21	1/15/2018	
12/4/2017	WRR	SOLVENT	45,400	1-TT	SS-119	010670638FLE	12/7/2017	13	12/20/2017	
12/26/2017	WRR	ACETONE	31,840	1-TT	V-7	010670646FLE	12/28/2017	18	1/15/2018	
TOTAL	WRR	ALL	4,188,060							

APPENDIX 2

Illinois Environmental Protection Agency
National Pollutant Discharge Elimination System
IEPA NPDES Permit No. IL0003140

Effective Date: January 1, 2013
Expiration Date: December 31, 2017

Note: Includes SWPPP Requirements (See Special Condition 12)

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

1021 NORTH GRAND AVENUE EAST, P.O. BOX 19276, SPRINGFIELD, ILLINOIS 62794-9276 • (217) 782-3397

PAT QUINN, GOVERNOR JOHN J. KIM, INTERIM DIRECTOR

217/782-0610

December 28, 2012

3M Cordova
22614 Route 84 North
Cordova, Illinois 61242

Re: 3M Cordova
NPDES Permit No. IL0003140
Final Permit

Gentlemen:

Attached is the final NPDES Permit for your discharge. The Permit as issued covers discharge limitations, monitoring, and reporting requirements. Failure to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The Agency has begun a program allowing the submittal of electronic Discharge Monitoring Reports (eDMRs) instead of paper Discharge Monitoring Reports (DMRs). If you are interested in eDMRs, more information can be found on the Agency website, http://epa.state.il.us/water/edmr/index.html. If your facility is not registered in the eDMR program, a supply of preprinted paper DMR Forms for your facility will be sent to you prior to the initiation of DMR reporting under the reissued permit. Additional information and instructions will accompany the preprinted DMRs upon their arrival.

The attached Permit is effective as of the date indicated on the first page of the Permit. Until the effective date of any re-issued Permit, the limitations and conditions of the previously-issued Permit remain in full effect. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 35 day period following the issuance date.

Should you have questions concerning the Permit, please contact Leslie Lowry at 217/782-0610.

Sincerely,

Alan Keller

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:DEL:LRL:12051601.daa

Attachment: Final Permit

cc: Records Unit
Compliance Assurance Section
Rockford Region
Billing
USEPA

4302 N. Main St., Rockford, IL 61103 (815)987-7760
595 S. State, Elgin, IL 60123 (847)608-3131
2125 S. First St., Champaign, IL 61820 (217)278-5800
2009 Mall St., Collinsville, IL 62234 (618)346-5120

9511 Harrison St., Des Plaines, IL 60016 (847)294-4000
5407 N. University St., Arbor 113, Peoria, IL 61614 (309)693-5462
2309 W. Main St., Suite 116, Marion, IL 62959 (618)993-7200
100 W. Randolph, Suite 11-300, Chicago, IL 60601 (312)814-6026

NPDES Permit No. IL0003140

Illinois Environmental Protection Agency

Division of Water Pollution Control

1021 North Grand Avenue East

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: December 31, 2017

Issue Date: December 28, 2012
Effective Date: January 1, 2013

Name and Address of Permittee:

3M Cordova
22614 Route 84 North
Cordova, Illinois 61242

Facility Name and Address:

3M Cordova
22614 Route 84 North
Cordova, Illinois 61242
Rock Island County

Discharge Number and Name:	Receiving Waters:
001 Combined Wastewater	Mississippi River
A01 Treated Wastewater	Mississippi River
002 Stormwater Runoff	Mississippi River
003 Stormwater Runoff	Mississippi River
004 Stormwater Runoff	Mississippi River

In compliance with the provisions of the Illinois Environmental Protection Act, Title 35 of Ill. Adm. Code, Subtitle C and/or Subtitle D, Chapter 1, and the Clean Water Act (CWA), the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Alan Keller

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

SAK:LRL:12051601.daa

NPDES Permit No. IL0003140

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall 001 – Combined Wastewater (Average Flow = 8.1 MGD) This discharge consists of: 1. Non-Contact Cooling Water 2. Treated Wastewater (A01) 3. Stormwater Runoff*						
Flow (MGD)	See Special Condition 1.				Daily	Continuous
pH	See Special Condition 2.				2/Week	Grab
Temperature	See Special Condition 3.				2/Week	Single Reading
Fecal Coliform	See Special Condition 4.			400/100 ml	1/Month	Grab
BOD_5			20	40	2/Week	Composite
Total Suspended Solids			25	50	2/Week	Composite
Fluoride			15	30	2/Week	Composite
Iron (Total)			2	4	2/Week	Composite
Nickel			1	2	2/Week	Composite
Ammonia Nitrogen (as N)			Monitor Only		1/Month	Grab
Cyanide			Monitor Only		1/Year	Composite
Mercury			Monitor Only		1/Year	Composite
Manganese			Monitor Only		1/Year	Composite
Sulfate			Monitor Only		1/Month	Grab
Perfluorobutanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluoropentanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluorohexanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluoroheptanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluoroctanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluorononanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluorodecanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluoroundecanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluorododecanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluorotridecanoic Acid			Monitor Only		1/Quarter**	Grab
Perfluorobutanesulfonate			Monitor Only		1/Quarter**	Grab

NPDES Permit No. IL0003140

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall 001 cont.						
Perfluorohexanesulfonate				Monitor Only	1/Quarter**	Grab
Perfluorooctanesulfonate				Monitor Only	1/Quarter**	Grab
Perfluorooctanesulfonamide				Monitor Only	1/Quarter**	Grab

* - See Special Condition 12.
** - Monitor during the months of March, June, September, and December.

NPDES Permit No. IL0003140

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall A01 – Treated Wastewater (DAF = 0.994 MGD)						
This discharge consists of: 1. Utilities a. Boiler Blowdown b. Sample Tabs, Utilities Lab, and Misc. Small Sources 2. Sanitary 3. Internals a. General i. Vacuum Systems ii. Reactor Cleaning iii. Product Washes and Purification iv. Filter Line Flushes, Tanker/Tote/Filter Cleaning, and Area Clean-Up v. Misc. Non-Contact Cooling Water b. Thermoset Resins i. Vacuum Systems ii. Reactor Cleaning iii. Product Washes/Purification/Distillate Recovery c. Pharmaceutical i. Vacuum Systems ii. Reactor Cleaning 4. Electronic Factory a. Alkylation, Stabilization, and Purification b. Air Scrubbers c. Reactor, Equipment, and Area Cleaning d. Vessel, Pump, and Instrument Cleaning e. HF30 Stream f. Thermal Oxidizer Scrubber 5. Building Roof Drains*						
Flow (MGD)	See Special Condition 1.				Daily	Continuous
pH	See Special Condition 2.				4/Week	Grab
BOD_5	895	1782	108	215	4/Week	Composite
Total Suspended Solids	406	812	49	98***	4/Week	Composite
Fluoride	281	563	34	68	4/Week	Composite
Iron (Total)	16	33	2	4	4/Week	Composite
Nickel	8	16	1	2	4/Week	Composite
Barium			Monitor Only		1/Quarter**	Composite
Cyanide (Total)	See Special Condition 9.		Monitor Only		1/Quarter**	Composite
Mercury	See Special Condition 9.		Monitor Only		1/Quarter**	Composite
Manganese			Monitor Only		1/Quarter**	Composite
Sulfate			Monitor Only		1/Month	Grab
Ammonia Nitrogen (as N)			Monitor Only		1/Month	Grab

NPDES Permit No. IL0003140

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

PARAMETER	LOAD LIMITS lbs/day DAF (DMF) 30 DAY AVERAGE	LOAD LIMITS lbs/day DAF (DMF) DAILY MAXIMUM	CONCENTRATION LIMITS mg/l 30 DAY AVERAGE	CONCENTRATION LIMITS mg/l DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall A01 cont.						
126 Priority Pollutants	See Special Condition 9.			Monitor Only	1/Quarter**	Grab
Formaldehyde				Monitor Only	1/Quarter**	Grab
Copper	See Special Condition 9.			Monitor Only	1/Quarter**	Composite
Lead	See Special Condition 9.			Monitor Only	1/Quarter**	Composite
Zinc	See Special Condition 9.			Monitor Only	1/Quarter**	Composite
Cobalt				Monitor Only	1/Quarter**	Composite
COD				Monitor Only	1/Quarter**	Composite
Chromium	See Special Condition 9.			Monitor Only	1/Quarter**	Composite

* - See Special Condition 10.
** - Monitor during the months of March, June, September, and December.
*** - See Special Condition 16.

Outfall 002 – Stormwater Runoff* (Intermittent Discharge)					
Flow (MGD)	See Special Condition 1.			1/Quarter**	Measure
126 Priority Pollutants			Monitor Only	1/Year	Composite
Iron (Total)			Monitor Only	1/Quarter**	Composite

* - See Special Condition 12.
** - Monitor during the months of March, June, September, and December.

Outfall 003 – Stormwater Runoff* (Intermittent Discharge)					
Flow (MGD)	See Special Condition 1.			1/Quarter**	Measure
126 Priority Pollutants	See Special Condition 9.		Monitor Only	1/Year	Composite
Iron (Total)			Monitor Only	1/Quarter**	Composite

* - See Special Condition 12.
** - Monitor during the months of March, June, September, and December.

NPDES Permit No. IL0003140

Effluent Limitations and Monitoring

1. From the effective date of this permit until the expiration date, the effluent of the following discharges shall be monitored and limited at all times as follows:

	LOAD LIMITS lbs/day DAF (DMF)		CONCENTRATION LIMITS mg/l			
PARAMETER	30 DAY AVERAGE	DAILY MAXIMUM	30 DAY AVERAGE	DAILY MAXIMUM	SAMPLE FREQUENCY	SAMPLE TYPE
Outfall 004 – Stormwater Runoff* (Intermittent Discharge)						
Flow (MGD)	See Special Condition 1.				1/Quarter**	Measure
126 Priority Pollutants	See Special Condition 9.		Monitor Only		1/Year	Composite
Iron (Total)			Monitor Only		1/Quarter**	Composite

* - See Special Condition 12.
** - Monitor during the months of March, June, September, and December.

Special Conditions

SPECIAL CONDITION 1. Flow shall be measured in units of Million Gallons per Day (MGD) and reported as a monthly average and a daily maximum on the Discharge Monitoring Report.

SPECIAL CONDITION 2. The pH shall be in the range 6.0 to 9.0. The monthly minimum and monthly maximum values shall be reported on the DMR form.

SPECIAL CONDITION 3. This facility meets the allowed mixing criteria for thermal discharges pursuant to 35 IAC 302.102. No reasonable potential exists for the discharge to exceed thermal water quality standards. This determination is based a maximum flow of 19.432 MGD and a maximum temperature of 124° F. The permittee shall monitor the flow and temperature of the discharge prior to entry into the receiving water body. Monitoring results shall be reported on the monthly Discharge Monitoring Report. This permit may be modified to include formal temperature limitations should the results of the monitoring show that there is reasonable potential to exceed a thermal water quality standard. Modification of this permit shall follow public notice and opportunity for comment.

There shall be no abnormal temperature changes that may adversely affect aquatic life unless caused by natural conditions. The normal daily and seasonal temperature fluctuations which existed before the addition of heat due to other than natural causes shall be maintained.

The monthly maximum value shall be reported on the DMR form.

SPECIAL CONDITION 4. The daily maximum fecal coliform count shall not exceed 400 per 100 ml.

SPECIAL CONDITION 5. Samples taken in compliance with the internal monitoring requirements for Internal Outfall A01 shall be taken at a point representative of the discharge but prior to mixing with the discharge of non-contact cooling water from Outfall 001.

SPECIAL CONDITION 6. Samples taken in compliance with the effluent monitoring requirements for Outfalls 001, 002, 003 and 004 shall be taken at points representative of the discharges, but prior to entry into the receiving stream.

SPECIAL CONDITION 7. The Permittee shall record monitoring results on Discharge Monitoring Report (DMR) Forms using one such form for each outfall each month.

In the event that an outfall does not discharge during a monthly reporting period, the DMR Form shall be submitted with no discharge indicated.

The Permittee may choose to submit electronic DMRs (eDMRs) instead of mailing paper DMRs to the IEPA. More information, including registration information for the eDMR program, can be obtained on the IEPA website, http://www.epa.state.il.us/water/edmr/index.html.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 15th day of the following month, unless otherwise specified by the permitting authority.

Permittees not using eDMRs shall mail Discharge Monitoring Reports with an original signature to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section, Mail Code # 19

SPECIAL CONDITION 8. The Permittee shall conduct biomonitoring of the effluent from Outfall 001.

Biomonitoring

1. Acute Toxicity – Standard definitive acute toxicity tests shall be run on at least two trophic levels of aquatic species (fish, invertebrate) representative of the aquatic community of the receiving stream. Testing must be consistent with Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms (Fifth Ed.) EPA/821-R-02-012. Unless substitute tests are pre-approved; the following tests are required:

   a. Fish - 96 hour static LC_{50} Bioassay using fathead minnows (Pimephales promelas).

   b. Invertebrate 48-hour static LC_{50} Bioassay using Ceriodaphnia.

Special Conditions

2. Testing Frequency – The above tests shall be conducted using 24-hour composite samples unless otherwise authorized by the IEPA. Testing shall be conducted on a semiannual basis during the months of March and September. If possible, bioassay sample collection should coincide with sample collection for metals analysis or other parameters that may contribute to effluent toxicity.

3. Reporting – Results shall be reported according to EPA/821-R-02-012, Section 12, Report Preparation, and shall be submitted to IEPA, Bureau of Water, Compliance Assurance Section within one week of receipt from the laboratory.

4. Toxicity – Pending the completion of a mixing zone and ZID demonstration, mixing for whole effluent toxicity may be granted mixing providing effluent does not exceed 1.0 Toxic Units outside of the ZID and that toxicity only occurs in response to a regulated parameter that has been granted mixing. Should a bioassay result in greater than 1.0 Toxic Units outside of the ZID, or in the absence of a mixing zone and ZID demonstration should a bioassay result in toxicity to >20% of organisms tested in the 100% effluent treatment due to an unknown toxicant, the IEPA may require, upon notification, six (6) additional rounds of monthly testing on the affected organism(s) to be initiated within 30 days of the toxic bioassay. Results shall be submitted to IEPA within one (1) week of becoming available to the Permittee. Should any of the additional bioassays result in greater than 1.0 Toxic Units outside of the ZID, or in the absence of a mixing zone and ZID demonstration should greater than 1.0 Toxic Units exist in the 100% effluent treatment, the Permittee may wish to contact the IEPA to request the discontinuance of further sampling at which time the IEPA may require the Permittee to begin the toxicity reduction evaluation and identification as outlined below.

5. Toxicity Reduction Evaluation – As described above, the IEPA may require, upon notification, that the Permittee prepare a plan for toxicity reduction evaluation and identification. This plan shall be developed in accordance with Toxicity Reduction Evaluation Guidance for Municipal Wastewater Treatment Plants, EPA/833B-99/002, and shall include an evaluation to determine which chemicals have a potential for being discharged in the plant wastewater, a monitoring program to determine their presence or absence and to identify other compounds which are not being removed by treatment, and other measures as appropriate. The Permittee shall submit to the IEPA its plan for toxicity reduction evaluation within ninety (90) days following notification by the IEPA. The Permittee shall implement the plan within ninety (90) days or other such date as contained in a notification letter received from the IEPA.

   The IEPA may modify this Permit during its term to incorporate additional requirements or limitations based on the results of the biomonitoring. In addition, after review of the monitoring results, the IEPA may modify this Permit to include numerical limitations for specific toxic pollutants. Modifications under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 9. The permittee shall perform chemical specific testing on the effluent from Outfalls A01, 002, 003, and 004 for 126 priority pollutants (see 40 CFR 136 Appendix A, Methods 624 and 625). Samples shall be handled, prepared, and analyzed by GC/MS in accordance with 40 CFR 136 Methods 624 and 625 (October 26, 1984 Federal Register). GC/MS procedures for direct injection of water samples using appropriate GC columns such as 10% carbowax 20M shall be used for compounds not amenable to extraction by the above methods (base neutral/acid technique).

All sample collection, preservation, and storage times shall conform to 40 CFR 136 or other approved USEPA procedures and requirements. Detection limits for USEPA Methods, or alternative methods, shall be comparable with the method detection limit in 40 CFR 136 regulations. The detection limit for the direct injection protocol shall be as sensitive as possible, utilizing sound laboratory practices.

SPECIAL CONDITION 10. The Agency has determined that the effluent limitations for outfall A01 contained in this permit constitute BAT/BCT for stormwater which is treated in the existing treatment facilities for purposes of this permit reissuance, and no pollution prevention plan will be required for such stormwater. In addition to the chemical specific monitoring required elsewhere in this permit, the permittee shall conduct an annual inspection of the facility site to identify areas contributing to a stormwater discharge associated with industrial activity, and determine whether any facility modifications have occurred which result in previously-treated stormwater discharges no longer receiving treatment. If any such discharges are identified the permittee shall request a modification of this permit within 30 days after the inspection. Records of the annual inspection shall be retained by the permittee for the term of this permit and be made available to the Agency on request.

SPECIAL CONDITION 11. If an applicable standard or limitation is promulgated under Sections 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) and that effluent standard or limitation is more stringent than any limitation in the permit or controls a pollutant not limited in the permit, this permit shall be promptly modified or revoked and reissued to conform to that effluent standard or limitation. Modification under this condition shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 12.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be maintained by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation

of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit. The permittee shall modify the plan if substantive changes are made or occur affecting compliance with this condition.

1. Waters not classified as impaired pursuant to Section 303(d) of the Clean Water Act.

   Unless otherwise specified by federal regulation, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

2. Waters classified as impaired pursuant to Section 303(d) of the Clean Water Act.

   For any site which discharges directly to an impaired water identified in the Agency's 303(d) listing, and if any parameter in the subject discharge has been identified as the cause of impairment, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations, the storm water pollution prevention plan shall adhere to a more restrictive design criteria.

B. The operator or owner of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request.

   Facilities which discharge to a municipal separate storm sewer system shall also make a copy available to the operator of the municipal system at any reasonable time upon request.

C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.

D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph H of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within 30 days of any proposed construction or operational changes at the facility, and shall be provided to the Agency for review upon request.

E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:

   1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate. Any map or portion of map may be withheld for security reasons.

   2. A site map showing:

      i. The storm water conveyance and discharge structures;

      ii. An outline of the storm water drainage areas for each storm water discharge point;

      iii. Paved areas and buildings;

      iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.

      v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);

      vi. Surface water locations and/or municipal storm drain locations

      vii. Areas of existing and potential soil erosion;

      viii. Vehicle service areas;

      ix. Material loading, unloading, and access areas.

      x. Areas under items iv and ix above may be withheld from the site for security reasons.

3. A narrative description of the following:

   i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;

   ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;

   iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;

   iv. Industrial storm water discharge treatment facilities;

   v. Methods of onsite storage and disposal of significant materials.

4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities. Also provide a list of any pollutant that is listed as impaired in the most recent 303(d) report.

5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.

6. A summary of existing sampling data describing pollutants in storm water discharges.

F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:

1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.

2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.

3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.

4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill cleanup equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.

5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:

   i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff. To the maximum extent practicable storm water discharged from any area where material handling equipment or activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water should not enter vegetated areas or surface waters or infiltrate into the soil unless adequate treatment is provided.

   ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges.

   iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges.

   iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.

v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination. Minimize the quantity of storm water entering areas where material handling equipment of activities, raw material, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water using green infrastructure techniques where practicable in the areas outside the exposure area, and otherwise divert storm water away from exposure area.

vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.

vii. Storm Water Reduction - Install vegetation on roofs of buildings within adjacent to the exposure area to detain and evapotranspirate runoff where precipitation falling on the roof is not exposed to contaminants, to minimize storm water runoff; capture storm water in devices that minimize the amount of storm water runoff and use this water as appropriate based on quality.

6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion. The plan shall describe measures to limit erosion.

7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.

G. Non-Storm Water Discharge - The plan shall include a certification that the discharge has been tested or evaluated for the presence of non-storm water discharge. The certification shall include a description of any test for the presence of non-storm water discharges, the methods used, the dates of the testing, and any onsite drainage points that were observed during the testing. Any facility that is unable to provide this certification must describe the procedure of any test conducted for the presence of non-storm water discharges, the test results, potential sources of non-storm water discharges to the storm sewer, and why adequate tests for such storm sewers were not feasible.

H. Quarterly Visual Observation of Discharges - The requirements and procedures for quarterly visual observations are applicable to all outfalls covered by this condition.

1. You must perform and document a quarterly visual observation of a storm water discharge associated with industrial activity from each outfall. The visual observation must be made during daylight hours. If no storm event resulted in runoff during daylight hours from the facility during a monitoring quarter, you are excused from the visual observations requirement for that quarter, provided you document in your records that no runoff occurred. You must sign and certify the document.

2. Your visual observation must be made on samples collected as soon as practical, but not to exceed 1 hour or when the runoff or snow melt begins discharging from your facility. All samples must be collected from a storm event discharge that is greater than 0.1 inch in magnitude and that occurs at least 72 hours from the previously measureable (greater than 0.1 inch rainfall) storm event. The observation must document: color, odor, clarity, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution. If visual observations indicate any unnatural color, odor, turbidity, floatable material, oil sheen or other indicators of storm water pollution, the permittee shall obtain a sample and monitor for the parameter or the list of pollutants in Part E.4.

3. You must maintain your visual observation reports onsite with the SWPPP. The report must include the observation date and time, inspection personnel, nature of the discharge (i.e., runoff or snow melt), visual quality of the storm water discharge (including observations of color, odor, floating solids, settled solids, suspended solids, foam, oil sheen, and other obvious indicators of storm water pollution), and probable sources of any observed storm water contamination.

4. You may exercise a waiver of the visual observation requirement at a facility that is inactive or unstaffed, as long as there are no industrial materials or activities exposed to storm water. If you exercise this waiver, you must maintain a certification with your SWPPP stating that the site is inactive and unstaffed, and that there are no industrial materials or activities exposed to storm water.

5. Representative Outfalls - If your facility has two or more outfalls that you believe discharge substantially identical effluents, based on similarities of the industrial activities, significant materials, size of drainage areas, and storm water management practices occurring within the drainage areas of the outfalls, you may conduct visual observations of the discharge at just one of the outfalls and report that the results also apply to the substantially identical outfall(s).

6. The visual observation documentation shall be made available to the Agency and general public upon written request.

Special Conditions

I. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

J. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated there under, and Best Management Programs under 40 CFR 125.100.

K. The plan is considered a report that shall be available to the public at any reasonable time upon request.

L. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

M. Facilities which discharge storm water associated with industrial activity to municipal separate storm sewers may also be subject to additional requirement imposed by the operator of the municipal system

Construction Authorization

Authorization is hereby granted to construct treatment works and related equipment that may be required by the Storm Water Pollution Prevention Plan developed pursuant to this permit.

This Authorization is issued subject to the following condition(s).

N. If any statement or representation is found to be incorrect, this authorization may be revoked and the permittee there upon waives all rights there under.

O. The issuance of this authorization (a) does not release the permittee from any liability for damage to persons or property caused by or resulting from the installation, maintenance or operation of the proposed facilities; (b) does not take into consideration the structural stability of any units or part of this project; and (c) does not release the permittee from compliance with other applicable statutes of the State of Illinois, or other applicable local law, regulations or ordinances.

P. Plans and specifications of all treatment equipment being included as part of the stormwater management practice shall be included in the SWPPP.

Q. Construction activities which result from treatment equipment installation, including clearing, grading and excavation activities which result in the disturbance of one acre or more of land area, are not covered by this authorization. The permittee shall contact the IEPA regarding the required permit(s).

REPORTING

R. The facility shall submit an electronic copy of the annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part I of this condition. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s). The annual inspection report is considered a public document that shall be available at any reasonable time upon request.

S. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.

T. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

U. The permittee shall retain the annual inspection report on file at least 3 years. This period may be extended by request of the Illinois Environmental Protection Agency at any time.

Special Conditions

Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

V. The permittee shall notify any regulated small municipal separate storm sewer owner (MS4 Community) that they maintain coverage under an individual NPDES permit. The permittee shall submit any SWPPP or any annual inspection to the MS4 community upon request by the MS4 community.

SPECIAL CONDITION 13. The effluent limitations for Total Suspended Solids, BOD, and Fluoride at Outfall A01 are based upon a determination of Best Degree of Treatment pursuant to 35 Ill. Adm. Code 304.102.

The permittee must submit to the Agency 2.5 years from the issuance date of this permit a treatability analysis of their existing Wastewater Treatment Plant. This document would include an analysis of wastewater sources and characteristics, and an evaluation of treatment technologies which are available which may improve the performance of the facility's wastewater treatment plant. The evaluation should include analysis of the technical feasibility of various treatment technologies as well as a cost analysis of those found to be technically feasible. The cost analysis should be performed to demonstrate if a treatment technology is economically reasonable.

SPECIAL CONDITION 14. The use or operation of this facility shall be by or under the supervision of a Certified Class K operator.

SPECIAL CONDITION 15. This permit authorizes the use of water treatment additives that were requested as part of this renewal. The use of any new additives such as chlorine or bromine, or change in those previously approved by the Agency, or if the permittee increases the feed rate or quantity of the additives used beyond what has been approved by the Agency, the permittee shall request a modification of this permit in accordance with the Standard Conditions - Attachment H.

SPECIAL CONDITION 16. From the effective date of this Permit, the Total Suspended Solids daily maximum limit for outfall A01 shall be 150 mg/l and 1243 lbs/day. A Total Suspended Solids daily maximum limit for outfall A01 of 98 mg/l and 812 lbs/day shall become effective on October 1, 2013.

The Permittee shall construct a Hydrocarbon and Salt Reduction Facility or some alternative means of compliance in accordance with the following schedule:

1. Progress Report	6 months from the effective date
2. Obtain Operation Level	October 1, 2013

Compliance dates set out in this Permit may be superseded or supplemented by compliance dates in judicial orders, or Pollution Control Board orders. This Permit may be modified, with Public Notice, to include such revised compliance dates.

The Permittee shall operate the hydrocarbon and salt reduction system or an alternative means of compliance in a manner to ensure continuous compliance with the Total Suspended Solids limit, not to the extent that will result in violations of other permitted effluent characteristic, or water quality standards.

REPORTING

The Permittee shall submit a report no later than fourteen (14) days following the completion dates indicated above for each numbered item in the compliance schedule, indicating, a) the date the item was completed, or b) that the item was not completed, the reason for non-completion, and the anticipated completion date

SPECIAL CONDITION 17. A zone of initial dilution (ZID) is recognized for ammonia and nickel with dimension of 100 feet across the width of the river from the end-of-pipe and 8 feet downstream from this point. Within the ZID, 7:1 dilution is afforded. A mixing zone is recognized with dimensions extending 100 feet across the width of the river and 20 feet downstream. Within the mixing zone 18:1 dilution is afforded.

Attachment H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24-Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8-Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

(1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirements.

(2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.

(3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62 and 40 CFR 122.63. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry**. The permittee shall allow an authorized representative of the Agency or USEPA (including an authorized contractor acting as a representative of the Agency or USEPA), upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records**.

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. Records related to the permittee's sewage sludge use and disposal activities shall be retained for a period of at least five years (or longer as required by 40 CFR Part 503). This period may be extended by request of the Agency or USEPA at any time.

(c) Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

(d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement**. All applications, reports or information submitted to the Agency shall be signed and certified.

(a) **Application**. All permit applications shall be signed as follows:

(1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation:

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.

(b) **Reports**. All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a); and

(2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and

(3) The written authorization is submitted to the Agency.

(c) **Changes of Authorization**. If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(d) **Certification**. Any person signing a document under paragraph (a) or (b) of this section shall make the following certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

(12) **Reporting requirements**.

(a) **Planned changes**. The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source pursuant to 40 CFR 122.29 (b); or

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements pursuant to 40 CFR 122.42 (a)(1).

(3) The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.

(b) **Anticipated noncompliance**. The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) **Transfers**. This permit is not transferable to any person except after notice to the Agency.

(d) **Compliance schedules**. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(e) **Monitoring reports**. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).

(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(f) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24-hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24-hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit.

(2) Any upset which exceeds any effluent limitation in the permit.

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit or any pollutant which may endanger health or the environment.

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24-hours.

(g) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12) (d), (e), or (f), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12) (f).

(h) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) **Bypass.**

(a) Definitions.

(1) Bypass means the intentional diversion of waste streams from any portion of a treatment facility.

(2) Severe property damage means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

(b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (13)(c) and (13)(d).

(c) Notice.

(1) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.

(2) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in paragraph (12)(f) (24-hour notice).

(d) Prohibition of bypass.

(1) Bypass is prohibited, and the Agency may take enforcement action against a permittee for bypass, unless:

(i) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

(ii) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

(iii) The permittee submitted notices as required under paragraph (13)(c).

(2) The Agency may approve an anticipated bypass, after considering its adverse effects, if the Agency determines that it will meet the three conditions listed above in paragraph (13)(d)(1).

(14) **Upset.**

(a) Definition. Upset means an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

(b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph (14)(c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

(c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An upset occurred and that the permittee can identify the cause(s) of the upset;

(2) The permitted facility was at the time being properly operated; and

(3) The permittee submitted notice of the upset as required in paragraph (12)(f)(2) (24-hour notice).

(4) The permittee complied with any remedial measures required under paragraph (4).

(d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

(15) **Transfer of permits.** Permits may be transferred by modification or automatic transfer as described below:

(a) Transfers by modification. Except as provided in paragraph (b), a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued pursuant to 40 CFR 122.62 (b) (2), or a minor modification made pursuant to 40 CFR 122.63 (d), to identify the new permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

(b) Automatic transfers. As an alternative to transfers under paragraph (a), any NPDES permit may be automatically

transferred to a new permittee if:

(1) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(2) The notice includes a written agreement between the existing and new permittees containing a specified date for transfer of permit responsibility, coverage and liability between the existing and new permittees; and

(3) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(16) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.

(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or

(4) The level established by the Agency in this permit.

(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(17) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:

(a) Any new introduction of pollutants into that POTW from an indirect discharge which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(18) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:

(a) User charges pursuant to Section 204 (b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;

(b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and

(c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.

(Rev. 7-9-2010 bah)

(19) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(20) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(21) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(22) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, 308, 318 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.
Additional penalties for violating these sections of the Clean Water Act are identified in 40 CFR 122.41 (a)(2) and (3).

(23) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than $20,000 per day of violation, or by imprisonment of not more than 4 years, or both.

(24) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(25) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(26) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(27) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board or any court with jurisdiction.

(28) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

APPENDIX 3

ANNUAL STORM WATER INSPECTION REPORTS

Annual inspection reports retained in print form by environmental engineer with NPDES responsibilities, and also available at:

\\cicommon\ESHR\SWPPP\Annual Reports

APPENDIX 4

QUARTERLY VISUAL OBSERVATION OF DISCHARGES AND RECOMMENDATIONS

Work Order: 424767 SITE ABOVE GROUND TANKS CONTAINMENT INSPECTION
Status Code: INPRG **Parent:** **Sequence:** **Failure:** FCC
Dates: Report 14-MAR-2014 07:16:18 **Required** 28-MAR-2014 **Scheduled** **Start** 28-MAR-2014
Description: CHANGED FROM 4 WEEKS TO MONTHLY PER K. SCHMUCK; TO BE DUE ON THE 28TH OF MONTH - TVK 11/22/06

Location: WAREHOUSE (WAS 7906) RM, SF, & FG WHSE
Equipment: 09800695 GENERAL & BLDG. MAINTENANCE - TANK FARM AREA
EQ Addr: 0000-TF **Serial Number:**

Lead Craft	Requestor	Class	Type	Priority	Dept-Acct Job Nbr	MOC
OPER	PMSWO	RG	PM	4	108140-732502	

EQ USER1 BLD **WO USER1**
EQ USER2 **WO USER2**

Operations	Labor Code	Description:	Assigned	Quantity	Planned Hours
10	OPER	Machine Operator		1	10.00

PM NBR MPM6131-01 **NEXT DATE** 28-APR-2014 **USE TARGET** Y **FREQ** 1 MONTHS
Job Plan: MPM6131
SITE ABOVE GROUND TANKS CONTAINMENT INSPECTION - MONTHLY PM

Operations

10 SITE ABOVE GROUND TANKS CONTAINMENT INSPECTION

Date: 12/20/11
Superceding: 10/15/08
Reason for change: Add 90 Day storage pads (Bldg 3 & Bldg 18)

Check the secondary containment structures for the site, including the areas listed below for erosion, cracking, or other conditions that may compromise their integrity.

Above Ground Tanks - North Tank Farm
Bldg 3 Above Ground Tanks
Bldg 3 Tank Farm
Above Ground Tanks - Bldg 20
Wastewater Treatment
HF30 Storage Tank/Loading Containment Area
Glycol Trailer Parking - South of Bldg 30
SPCC Containment Area - Track 5
90 day storage pads (Bldg 3 & Bldg 18)

Note unusual conditions below and write up any needed work requests.

Unusual Conditions:

Work Requests Written
WO#
WO#
WO#
WO#

*This PM has been created as part of 3M's Environmental Standard for Above Ground Tank Inspections.

LINE OPENING PERMIT? LO/TO PERMIT?

Date Completed | Completed By | Supervisor

END OF WORKORDER

Date _____

Time _____

Quarterly Visual Observation of Discharges (NPDES IL0003140 sc12.H)

Version 0
03/19/14

Weather Information

Weather at time of this inspection:

❑ Clear ❑ Cloudy ❑ Rain ❑ Sleet ❑ Fog ❑ Snowing ❑ High Winds

❑ Other: _____

Air Temperature (°F): _____ Approximate Amount of Precipitation (in): _____

Are there any discharges at the time of inspection: ❑ Yes ❑ No

Estimated flow rate (GPM): _____ Additional Observation / Comment: _____

_____

_____

_____

Storm Water Outfall

❑ South Ditch (Outfall 004) ❑ Center Ditch (Outfall 003) ❑ Bldg 50 Parking Lot (Outfall 002)

Water Present:	☐	yes			☐	no		
Valve Position:	☐	open	☐	closed	☐	N/A - direct discharge		
Odor:	☐	none	☐	sewage	☐	sulfide	☐	other : _____
Color:	☐	none	☐	brown	☐	green	☐	other : _____
Turbidity:	☐	none	☐	cloudy	☐	opaque		
Floatables:	☐	none	☐	sheen	☐	sewage	☐	other : _____
Other Solids:	☐	none	☐	suspended	☐	settled	☐	describe: _____
Deposits/Stains:	☐	none	☐	sediment	☐	oily	☐	describe: _____

Does visual observation indicates any unnatural color, odor, turbitiy, floatable material, oil sheen or other indicators of storm water pollution? **If yes, collect samples and analyze pollutants per permit sc12.E.4 (SWPPP section 6).**

☐ yes ☐ no

Additional Comment / Observation / Actions:

_____

_____

_____

_____

_____

Inspector's Name and title: _____

APPENDIX 5

INSPECTION FORMS

Quarterly visual observation of discharges

Storm water ditch daily drainage inspection

Monthly site aboveground tanks containment inspection

Date _____

Time _____

Quarterly Visual Observation of Discharges (NPDES IL0003140 sc12.H)

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____

Signature: _____ **Date:** _____

Inspection forms retained in print form by environmental engineer with NPDES responsibilities

APPENDIX 6

SWPPP Construction Permits

General NPDES Permit

Active Projects

Project	Status	Permit Issue Date	Notice of Termination (NOT) Date	SWPPP Primary Contact	Alternate Contact(s)
CS-16 Expansion	Complete	06/24/2011	04/22/14	Keith Schmuck	Mark Sattizahn

Projects completed within the past 3 years

Project	Status	Permit Issue Date	Notice of Termination (NOT) Date	SWPPP Primary Contact	Alternate Contact(s)
Bldg 094 General Construction	Complete	06/03/2011	11/02/12	Keith Schmuck	Rick McGrath Mark Sattizahn

Storm Water Pollution Prevention Plan

for

Building 094 General/Mechanical Construction

Cordova, Illinois

Prepared for: 3M Company

May 20, 2011

Prepared by
TKDA
Suite 1500, 444 Cedar Street
Saint Paul, Minnesota 55101
Project Number 13317.065

May 3, 2011

Storm Water Pollution Prevention Plan
for
3M Building 094 General/Mechanical Construction

Cordova, Illinois

CERTIFICATION

I hereby certify that the attached Storm Water Pollution Prevention Plan (SWPPP) for the subject project was prepared by me or under my direct supervision; to the best of my knowledge the SWPPP meets the requirements of the NPDES General Stormwater Permit for Construction Activity; and I am a duly licensed Professional Engineer under the laws of the State of Illinois.

Timothy A. Chalupnik, P.E.
Lic. No. 062-058980 Date: 5/23/11

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Ken H. Ramm
EHS&R Manager Date: 5/13/11

Storm Water Pollution Prevention Plan
for
Building 094 General/Mechanical Construction

Cordova, Illinois

TABLE OF CONTENTS

APPENDICES

Storm Water Pollution Prevention Plan
for
Building 94 General Construction

Cordova, Illinois

SECTION 1: INTRODUCTION

A Storm Water Pollution Prevention Plan (SWPPP) is a requirement of the General Storm Water Permit for Construction Activity. A SWPPP is more than just a sediment and erosion control plan. It describes all the construction site operator's activities to prevent storm water contamination, control sedimentation and erosion, and comply with the requirements of the Clean Water Act (CWA). The SWPPP is a combination of narrative, plan sheets, specifications, and construction details that document good housekeeping measures, erosion prevention measures, and sediment controls that, when implemented, will decrease soil erosion from construction sites and decrease pollution in receiving waters. The SWPPP is a working document that the Contractor must use and update to manage storm water runoff within and discharging from a construction site.

The most current project plans shall accompany the SWPPP at all times during construction activities. The most current project specifications and design calculations are made a part of the SWPPP by reference only and are not included with the SWPPP. The current project specifications and design calculations are available for review by request from the Owner. If the SWPPP, as amended, conflicts with the final project plans, the order of precedence for construction documents is: (1) the SWPPP, (2) the final project plans, and (3) the specifications.

SECTION 2: GENERAL CONSTRUCTION PROJECT INFORMATION

2.1 Project Name

Building 94 General Construction

2.2 Project Location

Briefly describe where construction activity occurs. Include address if available:

The project is located 0.5 miles ESE of the intersection of Illinois Route 84 and 3M Drive. A general location map is included in Appendix A.

City or Township: Cordova

State, Zip Code: Illinois, 61242

Latitude and longitude of approximate centroid of project: Latitude: 41.73° N
Longitude: 90.27° W

Method of collection of latitude/longitude:
☐ GPS ☒ Online Tool ☐ USGS Topographic map

All cities where construction will occur: Cordova

All counties where construction will occur: Rock Island

All townships where construction will occur: N/A

2.3 Construction Activity Description (IV.D.1.b)

Briefly describe the nature of the construction activity (what will be built):

The project includes grading and aggregate surfacing for an access road, construction of a well house, underground well water piping, surface drainage swales and a culvert.

Describe a general schedule and approximate timeline for construction:

- Placement of temporary erosion and sediment controls, such as perimeter control silt fence and inlet protection (May 2011).
- Construction of drainage swales and installation of culvert (May 2011)
- Grading and surfacing of access road (June 2011).
- Construction of Well House (June-July 2011)
- Installation of well water piping (June-July 2011).
- Placement of permanent turf establishment and final stabilization (August 2011).
- Removal of temporary erosion and sediment control BMPs (August 2011).

2.4 Soils Types (IV.D.1.d)

Describe soil types found at the project:

According to a review of the USDA Natural Resource Conservation Service soils map for Rock Island County, Illinois, on-site soils consist predominantly of the Sparta Loamy Sand. These soils are classified as hydrologic soil group A. Soil types are shown on the Soils Map included in Appendix B.

2.5 Project Size (IV.D.1.c)

Identify the number of acres to be disturbed:

The number of acres that will be disturbed for this project is: 3.76 acres

Total area of site: 431.9 acres

Post Construction run-off coefficient: 0.10

2.6 Project Type (IV.D.1.a)

Indicate the type of construction activity:

☐ Residential
☒ Commercial/Industrial
☐ Road Construction
☐ Residential and Road Construction
☐ Other (describe):

2.7 Cumulative Impervious Surface

Existing area of impervious surface: 0.04 acres

Post construction area of impervious surface: 0.25 acres

2.8 Receiving Waters (IV.D.1.f)

Runoff from the construction site area is bounded by topographic features and is subject to onsite infiltration. Site runoff does not drain to any Special or Impaired Waters, nor any wetlands.

2.9 Dates of Construction (IV.D.1.b)

Identify the approximate construction start date and estimated completion date:

Construction Start Date: May 2011

Estimated Completion Date: August 2011

SECTION 3: CONTACT INFORMATION

3.1 Owner of the Site

The Owner is the person or party possessing the title of the land on which the construction activities will occur. The Owner is the party responsible for compliance with all terms and conditions of the permit. Identify the Owner of the site including an alternate contact if available:

Business or Firm Name:	3M Company
Owner Name, Title:	Hollace Casillas Mat'l Resource Div. EHSR Admin.
Email:	hcasillas@mmm.com
Telephone:	(309) 654-2291
Mailing Address:	22614 Route 84 North
City, State, and Zip Code:	Cordova, IL 61242-9799
Alternate Contact Name, Title:	Pat McGrann, Civil Engineer
Email:	pjmcgrann2@mmm.com
Telephone:	(651) 737-2984

3.2 Contractor (Operator)

The Contractor is the person who will oversee implementation of the SWPPP. The Contractor is the party who signs the construction contract with the Owner to construct the project described in the final plans and specifications. The operator (usually the general contractor) is jointly responsible with the Owner for compliance with Part II.B, Part II.C, and Part IV of the permit. Identify the Contractor (Operator) including an alternate contact name if available:

Business or Firm Name:	TBD
Operator Name, Title:	
Email:	
Telephone:	
Mailing Address:	
City, State, and Zip Code:	
Alternate Contact Name, Title:	
Email:	
Telephone:	

3.3 Party Responsible for Long-Term Operation and Maintenance

Identify the party responsible for long-term operation and maintenance including an alternate contact name if available:

Business or Firm Name:	3M Company
Owner Name, Title:	Hollace Casillas Mat'l Resource Div. EHSR Admin.

Email:	hcasillas@mmm.com
Telephone:	(309) 654-2291
Mailing Address:	22614 Route 84 North
City, State, and Zip Code:	Cordova, IL 61242-9799
Alternate Contact Name, Title:	Pat McGrann, Civil Engineer
Email:	pjmcgrann2@mmm.com
Telephone:	(651) 737-2984

3.4 Additional List of Project Contacts

The following table shall include the name, contact information, and project role for all critical contacts of the project. The table shall be updated as new representatives are added to the project. The Subcontractor Certification form is located in Appendix J.

Representative or Contractor Name	Contact Information	Project Role
State Duty Officer IEMA	(800) 782-7860 (217) 782-7860	24-Hour Emergency Notification
Chris Bryan, P.E. TKDA	(651) 726-7921	Construction Project Engineer
Robert Krussow, P.E., LEED AP TKDA	(651) 292-4507	SWPPP Designer
		Contractor's Project Manager
		Contractor's Erosion Control Supervisor
		Subcontractor
		Subcontractor
		Subcontractor

SECTION 4: GENERAL SITE INFORMATION (IV.D)

4.1 Location and Type of BMPs and Timing of Installation (IV.D.1.b)

Describe the location and type of all temporary and permanent erosion prevention and sediment control BMPs, including the timing for installation and procedures used to establish temporary BMPs as necessary:

Temporary and permanent erosion and sediment control BMPs are shown on the Erosion and Sediment Control Plans and details included in the final construction plans and Appendix M. Details included in the construction plans shall be used to the maximum extent practical. Should the details not provide sufficient protection, the Contractor shall develop innovative field techniques to address the situation.

The temporary erosion and sediment control BMPs for the project include silt fence, temporary ditch checks, mulch, riprap, filter logs, culvert inlet protection, dust control, street sweeping, preservation of existing vegetation, and good housekeeping measures for material storage and waste control.

The proposed permanent erosion and sediment control BMPs for the project include topsoil, seed, fertilizer, mulch, riprap, and grassed swales.

Perimeter BMPs, and culvert inlet protection, shall be installed prior to the start of any land-disturbing activities. Additional temporary BMPs shall be installed per the amendment procedures during construction activities as needed to maintain permit compliance.

4.2 Anticipated Erosion and Sediment Control Quantities

Approximate quantities for all erosion prevention and sediment control BMPs are shown on the erosion and sediment control tabulation sheet, which is included in the final construction plan set and Appendix M.

4.3 Site Map of Existing and Final Grades (IV.D.1.e)

Attach to this SWPPP a site map that includes existing and final grades, including dividing lines and direction of flow for all pre- and post-construction storm water runoff drainage areas located within the project limits:

The Grading Plan is included in Appendix M.

4.4 Site Map of Impervious Surfaces and Soil Types (IV.D.1.e)

Attach to this SWPPP a site map that includes locations of impervious surfaces and soil types:

Impervious surfaces are shown on the Construction Plans, which are included in the final construction plan set. Soil types are shown on the Soils Map included in Appendix B.

4.5 Location of Areas Not to be Disturbed

All areas within the construction limits can be disturbed. All areas outside the construction limits as shown on the Construction Plans are not to be disturbed unless under separate agreements arranged by the Contractor and approved by the Owner and documented on the SWPPP Amendment Log included in Appendix I.

4.6 Location of Areas of Phased Construction (IV.D.1.b)

Identify locations of areas where construction will be phased to minimize the duration of exposed soil areas:

The Contractor shall limit the amount of disturbed soil area needed to construct the project at any given stage, and maintain existing vegetation or impervious cover whenever possible. The project will be constructed in two stages which will minimize the amount and duration of exposed soil areas. Stage one will include construction of the access road and begin trenching of the well water piping. Stage two will include construction of the well house and completion of the well water piping.

4.7 Location of Surface Waters and Wetlands (IV.D.1.f)

Runoff from the construction site area is bounded by topographic features and is subject to onsite infiltration. Site runoff does not drain to any Special or Impaired Waters, nor any wetlands.

4.8 Final Stabilization Methods (IV.D.2.a.i)

Identify methods to be used for final stabilization of all exposed soil areas:

Methods used for final stabilization of disturbed soil areas are shown on the Grading Plan included in the final construction plan set and Appendix M. Final stabilization includes permanent seed, mulch and riprap.

4.9 Environmental, Archaeological, or Other Local, State, or Federal Review (IV.D.2.d.i)

Were storm water mitigation measures required as the result of an environmental, archaeological, or other required local, state, or federal review of the project?

☐ Yes ☒ No

If yes, describe how these measures were addressed in the SWPPP:

As part of the NPDES permit submittal an Environmental Assessment will be performed by the Illinois Department of Natural Resources and identify potential environmental impacts due to the project. These impacts will be addressed as an amendment to the SWPPP.

4.10 Impaired Waters and TMDLs (IV.D.1.f)

Does the site discharge to a water that is listed as impaired for the following pollutants(s) or stressor(s): phosphorus, turbidity, dissolved oxygen or biotic impairment?

☐ Yes ☒ No

If yes, identify the impaired water and the pollutant(s) or stressor(s):

Runoff from the construction site area is bounded by topographic features and is subject to onsite infiltration. Site runoff does not drain to any Special or Impaired Waters, nor any wetlands

Does the impaired water have an approved TMDL with an Approved Waste Load Allocation for construction activity? ☐ Yes ☐ No

If yes:

a. *List the receiving water, the areas of the site discharging to it, and the pollutant(s) identified in the TMDL:*

N/A

b. *List the BMPs and any other specific construction storm water related implementation activities identified in the TMDL:*

N/A

SECTION 5: SWPPP AMENDMENTS (IV.C)

The Erosion and Sediment Control Supervisor must amend the SWPPP as necessary to include additional requirements, such as additional or modified BMPs, designed to correct problems identified or address situations whenever:

- *Any change affects the discharge of pollutants*
- *Inspections indicate ineffectiveness*
- *General objectives or terms and conditions of the permit are not being met*
- *A TMDL is established for the project's receiving water, in which there is a waste load allocation for construction activities*

Describe the SWPPP Amendment procedure:

When a SWPPP amendment is necessary, the Contractor's designated Erosion and Sediment Control Supervisor will use the Grading Plan as a working map. Additional or modified BMPs,

replacement of failed BMPs, significant changes in the activities, or any other changes to the site maps shall be drawn on the working map. The Erosion and Sediment Control Supervisor will then document the SWPPP amendment in the SWPPP Amendment Log included in Appendix I. The corrective action needed and the date action was taken will be documented in the Corrective Action Log included in Appendix H. The SWPPP Amendment Log will be updated as amendments are added to the SWPPP.

The Erosion and Sediment Control Supervisor will distribute all SWPPP amendments to the on-site superintendents. The Erosion and Sediment Control Supervisor will educate the on-site superintendents about the content of each amendment and how it may affect their work zone before construction activities are performed. The on-site superintendents will then educate all workers within their work zone about the content of the amendment and how it may affect their daily construction activities

SECTION 6: TRAINING

Attach to this SWPPP names of personnel trained; dates of training; name of instructor(s) and entity providing the training; content of training course or workshop including number of hours of training and describe on-site training program:

The contractor shall provide a qualified Erosion and Sediment Control Supervisor meeting the training requirements of the SWPPP and NPDES permit (IL R10). The Erosion and Sediment Control Supervisor shall have certification (P.E., CPESC, CESSWI, Other) in accordance with the NPDES permit (IL R10) and Notice of Intent.

The Erosion and Sediment Control Supervisor will ensure that the training required in the NPDES permit is complied with. The individuals trained and the training received will be recorded in the SWPPP Training Log included in Appendix L. Also included in Appendix L is the training certification for the individual preparing the SWPPP.

An on-site employee training program will also be developed and implemented to educate employees about the requirements of the SWPPP. This education program will include background on the components and goals of the SWPPP and hands-on training in erosion controls, spill prevention and response, good housekeeping, proper material handling, disposal and control of waste, equipment fueling, proper storage, washing and inspection procedures.

SECTION 7: PERMANENT STORM WATER MANAGEMENT SYSTEM

7.1 Storm Water Treatment Methods (IV.D.2)

Will the project create new cumulative impervious surface greater than or equal to 1 acre? ☐ Yes ☒ No

If yes, check the method that will be used to treat the water quality volume:

☐ Wet Sedimentation Basin
☐ Infiltration/Filtration
☐ Regional Ponds

☐ Combination of Practices
☐ Alternative Method
☐ Other (describe):

Describe the method selected and include all calculations and design information:

N/A

SECTION 8: EROSION PREVENTION PRACTICES (IV.D.2)

8.1 Construction Practices to Minimize Erosion

The location of areas not to be disturbed shall be delineated with flags, stakes, signs, silt fence, etc. before work begins. Describe construction phasing, vegetative buffer strips, horizontal slope grading, and other construction practices to minimize erosion:

Only areas within the construction limits shown on the grading plans are to be disturbed. Areas to be disturbed outside the construction limits will need Engineer approval prior to disturbance. Construction will occur in four separate phases. Disturbed areas within the construction limits shall be minimized as necessary for construction in any given phase. Preservation of existing vegetation is encouraged. See the Grading Plan included in the final construction plan set and Appendix B for erosion control measures.

8.2 Temporary Erosion Protection and Permanent Cover

When construction activities temporarily or permanently cease on a portion of the site, except as provided in paragraphs (A) and (B) below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activities in that portion of the site have temporarily or permanently ceased.

(A) Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceases upon a portion of the site is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

(B) Where construction activity will resume on a portion of the site within 14 days form when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 14 days) then stabilization measured do not have to be initiated on that portion of the site by the 7th day after construction activity temporarily ceased.

Temporary erosion protection BMPs shall include erosion control blanket, mulch, riprap, and plastic/tarp slope covers. Permanent cover generally includes permanent seeding with mulch and riprap. Additional erosion control measures other than those shown in the plans may be required to stabilize disturbed soil areas within the required time frames, depending on construction staging. Erosion protection and permanent cover used for exposed soils are shown on the Grading Plan included in the final construction plans and Appendix M. Temporary erosion protection and permanent cover stabilization activities will be documented in the Grading and Stabilization Activities Log included in Appendix K.

8.3 Drainage or Diversion Ditches

Stabilization of the remaining portions of any ditch or swale must be stabilized within 14 days (7 days if connecting to a Special or Impaired Water) after connecting to surface waters and construction in that portion of the ditch has temporarily or permanently ceased.

Pipe outlets must be protected with riprap within 24 hours after connection to surface waters.

Describe practices to stabilize drainage or diversion ditches:

Any temporary or permanent ditch shall be stabilized with erosion control blanket, geotextile fabric, plastic sheeting, riprap, and temporary ditch checks. BMPs to stabilize ditches are shown on the Grading Plan included in the final construction plan set and Appendix M. Drainage or diversion ditch stabilization activities will be documented in the Grading and Stabilization Activities Log included in Appendix K.

SECTION 9: SEDIMENT CONTROL PRACTICES (IV.D.2)

Sediment control practices must minimize sediments from entering surface waters, including curb and gutter systems and storm drain inlets.

9.1 Drainage Ditches and Sediment Basins

Describe practices that will be implemented to protect all temporary and permanent drainage ditches and sediment basins:

Ditch checks will be installed in all ditches to reduce erosive velocities and promote sedimentation. See the Grading Plan included in the final construction plans and Appendix M.

9.2 Protect Slopes

In order to maintain sheet flow and minimize rills and/or gullies, there will be no unbroken slope length of greater than 75 feet for slopes with a grade of 3:1 or steeper. Describe controls (e.g., erosion control blankets, check dams, tackifiers) that will be implemented to protect all slopes:

Mulch, hydraulic soil stabilizers, geotextile fabric, plastic sheeting, and/or erosion control blankets shall be used as needed to provide stabilization on exposed slopes. See the Grading Plan included in the final construction plans and Appendix M.

9.3 Establish Perimeter Controls and Sediment Barriers

Describe structural practices (e.g., silt fences or fiber rolls) that will be implemented prior to land disturbing activities to filter and trap sediment at down gradient perimeters before it leaves the construction site:

Silt fence and filter logs shall be installed on down gradient slopes prior to construction activities and shall remain in place until final stabilization has been established. See the Grading Plan included in the final construction plan set and Appendix M.

9.4 Protect Storm Drain Inlets

Describe controls that will be implemented to protect all inlets receiving storm water from the project during the entire project:

The construction site does not drain to any storm sewer or drains.

9.5 Protect Temporary Soil Stockpiles

Describe controls that will be implemented to protect temporary soil stockpiles:

All stockpiles of erodible materials shall have perimeter sediment control such as super duty or heavy duty silt fence placed prior to the work and shall not be placed in surface waters, including storm water conveyances such as curb and gutter. Stockpiles not being used shall be covered with temporary erosion control measures such as plastic sheeting/tarps or seeding/mulch or erosion control blankets.

9.6 Minimize Vehicle Tracking of Sediments

Street sweeping will be used if BMPs are not adequate to prevent sediment from being tracked onto the street and will be performed within 24 hours of discovery. Describe controls (e.g., stone pads, concrete or steel wash racks, or equivalent systems) that will be implemented to minimize vehicle tracking of sediment from the construction site:

Street sweeping utilizing a pick-up type sweeper, in conjunction with water for dust control, shall be used.

SECTION 10: DEWATERING AND BASIN DRAINING (IV.D)

Dewatering or basin draining that may have turbid or sediment laden discharge water must be discharged to a sediment basin whenever possible. Discharge from the basin must be visually checked to ensure that adequate treatment is obtained and that nuisance conditions will not result from the discharge. If the water cannot be discharged to a sediment basin prior to entering surface waters, it must be treated with appropriate BMPs. Discharge points must be adequately protected from erosion and scour.

Will the project include dewatering or basin draining? ☐ Yes ☒ No

If yes, describe the BMPs used so the discharge does not adversely affect the receiving water or downstream landowner:

N/A

SECTION 11: INSPECTIONS AND MAINTENANCE (IV.D)

The entire construction site must be routinely inspected at least:

- *Once every seven days during active construction*
- *Within 24 hours after a rainfall event greater than 0.5 inches in 24 hours*
- *Once a month on areas with permanent cover*

All inspections and maintenance conducted during construction must be recorded in writing, and these records must be retained with the SWPPP in accordance with Part IV.D4 Inspections must include stabilized areas, erosion prevention and sediment control BMPs, and infiltration areas. Describe procedures to routinely inspect the construction site:

The Contractor's Erosion and Sediment Control Supervisor, based on the above time frames, will conduct routine inspections of the construction site and prepare written reports. The inspections will verify that the temporary and permanent BMPs are in good working condition and are minimizing erosion and controlling sediment on the project site. The Erosion and Sediment Control Supervisor will also perform routine inspections of staging areas, material storage, and waste management areas once every 7 days or more often as necessary.

The following inspection and maintenance practices will be used to maintain erosion and sediment BMPs:

- Built-up sediment will be removed from silt fencing, rock logs, or other perimeter controls when it reaches one-third the height of the BMP.
- BMPs will be inspected for depth of sediment, tears, or other damage that renders the BMP ineffective. All ineffective BMPs will be repaired, replaced, or supplemented with additional BMPs.
- Temporary and permanent seeding will be inspected for bare spots, washouts, and healthy growth. All bare spots and washouts will be repaired.
- Street sweeping utilizing a pick-up type sweeper shall be used. Alternative entrance/exit BMPs may need to be used if sediment tracking is a continuous problem.
- The manufacturer's recommended maintenance procedures for all BMPs will be followed.

Refer to Appendix G for the Inspection Reports. If corrective actions are identified during the inspections, the Erosion and Sediment Control Supervisor will be responsible for initiating the corrective action within 24 hours and completing maintenance as soon as possible or before the next rainfall event and documenting in the Corrective Action Log included in Appendix H. For any correction that requires a SWPPP amendment, the SWPPP amendment procedure in Section 5 shall be followed.

SECTION 12: POLLUTION PREVENTION MANAGEMENT MEASURES (IV.D)

12.1 Solid Waste (IV.D.2.c.i)

Describe practices to properly manage and dispose of solid waste, including trash:

All non-hazardous solid waste will be collected and stored in a securely lidded metal dumpster(s), covered with plastic/tarps, or contained within soil berms/concrete barriers at the end of each day until final disposal takes place. No materials will be buried on site unless approved by the Owner. The Contractor will follow the good housekeeping practices for solid waste management included in Appendix F.

12.2 Hazardous Materials (IV.D.2.c.i)

Describe practices to properly manage hazardous materials:

Any hazardous materials stored on the project site must be protected by both primary and secondary containment such as soil berms, negative gradient to any water resource area, engineered containment area, or manufactured containment facilities (e.g., metal boxes). Hazardous materials will be located in a secure area of the construction site. The Contractor will have on hand the materials necessary to capture and contain any hazardous material spills. The following table contains a list of potential pollutants that result from typical construction projects. This table includes information regarding material type, chemical and physical description, and the specific regulated storm water pollutants associated with each material.

If the Contractor encounters contaminated soil during excavation activities, all work within the contaminated zone will STOP. The Contractor will immediately contact the Owner to determine a course of action prior to restarting work activities.

Identification of Potential Pollutants and Process for Containment

Material Chemical	Physical Description(1)	Storm Water Pollutants(1)	Location/Source	Process for Containment
Pesticides (insecticides, fungicides, herbicides, rodenticides)	Various colored to colorless liquid, powder, pellets, or grains	Chlorinated hydrocarbons, organophosphates, carbamates, arsenic	Herbicide use for noxious weed control	Certified applicator
Permanent fertilizer	Liquid or solid grains nitrogen, phosphorous	Nitrogen, phosphorous, organic substrate	Newly seeded areas	Process of containment is to clean up spills and incorporate fertilizer during seed bed preparation and using slow release (WIN)
Temporary fertilizer	Liquid or solid grains nitrogen, phosphorous	Nitrogen, phosphorous, potassium, chlorides	Rapid stabilization areas, topsoil berms, stockpiles	Managed application, certified installers, quick cover plant materials
Cleaning solvents	Colorless, blue, or yellow-green liquid	Perchloroethylene, methylene chloride, trichloroethylene, petroleum distillates	A. Mechanical equipment B. Trained applicators for concrete cleaning and prep work	A. No equipment cleaning in project limits B. Tarps, monitor weather for rain and wind

Material Chemical	Physical Description(1)	Storm Water Pollutants(1)	Location/Source	Process for Containment
Wastewater from construction	Equipment and vehicle washing	Water, soil, oil and grease, solids	Equipment, vehicles	Not allowed within project limits
Asphalt	Black solid	Oil, petroleum distillates	Paved surfaces	Excess material will be removed from project limits
Concrete and concrete dust	White solid	Limestone, sand	Bridges, approach panels, driveways	Designated wash areas, complete haul removal, or water application (e.g. wet sawing)
Glue, adhesives	White or yellow liquid	Polymers, epoxies	Expansion joints	Empty container management
Paints	Various colored liquid	Metal oxides, stoddard solvent, talc, calcium carbonate, arsenic	Bridge end rails, sign posts	Empty container management
Curing compounds	Creamy white liquid	Naphtha	Bridge	Manufacturer's recommendations
Wood preservatives	Clear amber or dark brown liquid	Stoddard solvent, petroleum, distillates, arsenic, copper, chromium	Timber pads, sign posts, rail posts	Follow manufacturer's recommendations
Hydraulic oil/fluids	Brown oily petroleum hydrocarbon	Mineral oil	Random leaks	Oil absorbing diapers, trained personnel
Gasoline	Colorless, pale brown or pink	Petroleum hydrocarbon benzene, ethyl benzene, toluene, xylene, MTBE	Secondary containment	Oil absorbing diapers, trained personnel
Diesel fuel	Clear, blue-green to yellow liquid	Petroleum distillate, oil, grease, naphthalene, xylenes	Secondary containment	Oil absorbing diapers, trained personnel
Antifreeze/ coolant	Clear green/yellow liquid	Ethylene glycol, propylene glycol, heavy metals (copper, lead, zinc)	Random leaks	Trained personnel
Engine grease/oil	Various-colored grease/oil	Grease, oil	Vehicles	No engine degreasing allowed on site.
Solid waste	Collected sediment, asphalt and concrete millings, floating debris, paper, plastic, fabric, construction and demolition debris	As described, left	Various	Dispose of in compliance with MPCA regulations
Sanitary waste	Contaminated water, rich organics, paper	Nitrogen, phosphorus, potassium, waste paper	Spills, leaks at portable units	Maintenance no less than once every 7 days by qualified personnel
Unintentionally displaced soils (erosion)	Solid soils particles	Soil, sediment	Cleared and graded areas, paved surfaces, storm pipe outlets, site exits	Rapid stabilization measures within critical areas, tighten controls adjacent to impaired waters, recovery of sediment loss within 7 days

12.3 External Washing of Trucks (IV.D.2.c.i)

Describe practices for external washing of trucks and other construction vehicles:

In general, washing of construction vehicles will not be allowed on the project site unless completed in an engineered containment system. Should washing of construction vehicles be required due to maintenance, the runoff produced from the washing shall be contained and visually checked for the pollutants listed in the above table and treated accordingly prior to discharge to any surface water.

12.4 Concrete Washout on Site (IV.D.2.c.iii)

Describe how you are going to provide a safe, leak-proof concrete washout area on site:

All liquid and solid wastes generated by concrete washout operations must be contained in a leak-proof containment facility or impermeable liner. A compacted clay liner that does not allow washout liquids to enter ground water is considered an impermeable liner. The liquid and solid waste must not contact the ground, and there must not be runoff from the concrete operations or areas. Liquid and solid waste must be disposed of properly and in compliance with Illinois Environmental Protection Agency regulations. A sign must be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facility. See Appendix F for additional information on concrete washout BMPs.

12.5 Spill Prevention Plan

Describe your spill prevention plan:

The following spill prevention measures shall be followed:

- Fertilizers and herbicides shall be stored in sealed containers that are clearly labeled to avoid spills.
- All vehicles on site shall be monitored for leaks and receive regular preventive maintenance to reduce the chance of leakage.
- Petroleum products shall be stored in sealed containers that are clearly labeled to avoid spills. Secondary containment shall be provided for petroleum products.
- Spill kits shall be included with all fueling vehicles.
- Materials and equipment necessary for spill cleanup shall be kept on the project site. Equipment shall include, but not be limited to, brooms, dust pans, mops, rags, gloves, goggles, kitty litter, sand, sawdust, oil absorbent booms and diapers, and plastic and metal trash containers.

All spills will be cleaned up immediately upon discovery. Spills large enough to reach any storm water conveyance systems and discharge from the project site will be reported to the IEPA State Duty Officer at (800) 782-7860.

12.6 Sanitary and Septic Waste (IV.D.2.c.ii)

Describe measures to address sanitary and septic waste:

All sanitary waste will be collected from the portable units at a rate necessary to maintain designed function by a licensed sanitary waste management contractor. All portable units will be tethered to prevent tipping.

SECTION 13: FINAL STABILIZATION (IV.D.2)

Describe how you will achieve final stabilization of the site:

Final stabilization measures are detailed on the Grading Plan included in the final construction plans. Final stabilization includes permanent seeding with mulch and riprap. Final stabilization of the construction site will be achieved once all soil disturbing activities have been completed, a uniform vegetative cover with a density of 70 percent of the native background cover is achieved, and all temporary BMPs have been removed. The Contractor shall be responsible for watering and weed control until the 70 percent cover is achieved.

The Contractor must submit a Notice of Termination (NOT) within 30 days after final stabilization has been completed on all portions of the site and all construction activity has been completed. A NOT form is located in Appendix E.

SECTION 14: RECORDS RETENTION (V)

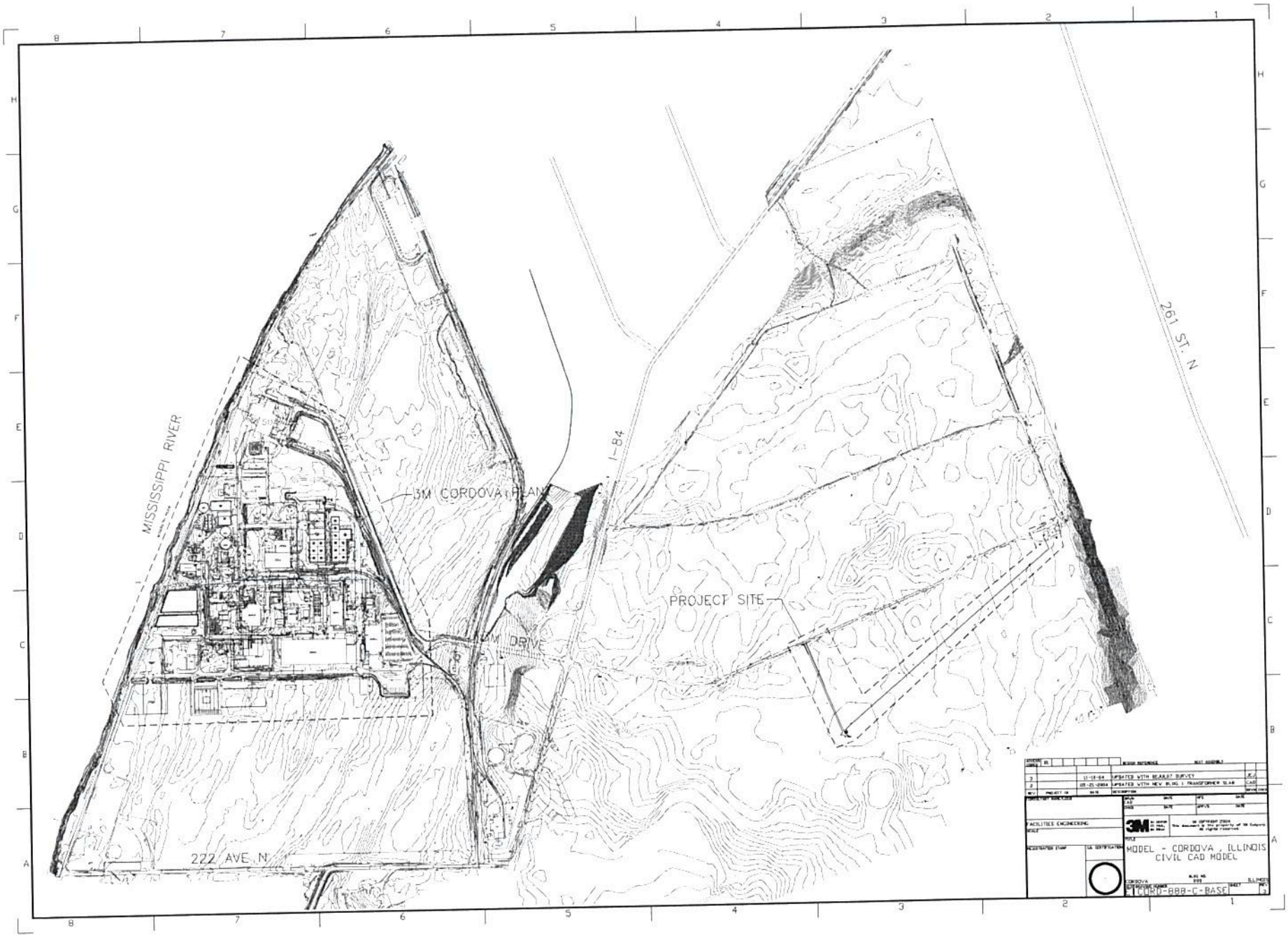
The SWPPP and all amendments to it shall be kept on the construction site during construction activities. The Owner shall keep the SWPPP, along with the following additional records, on file for a period of three years after construction activities are completed:

- *Copy of the SWPPP and any changes*
- *Training documentation*
- *Any other permits required for the project*
- *Inspection and maintenance records*
- *Permanent operation and maintenance agreements*
- *Calculations for the design of temporary and permanent storm water management systems.*

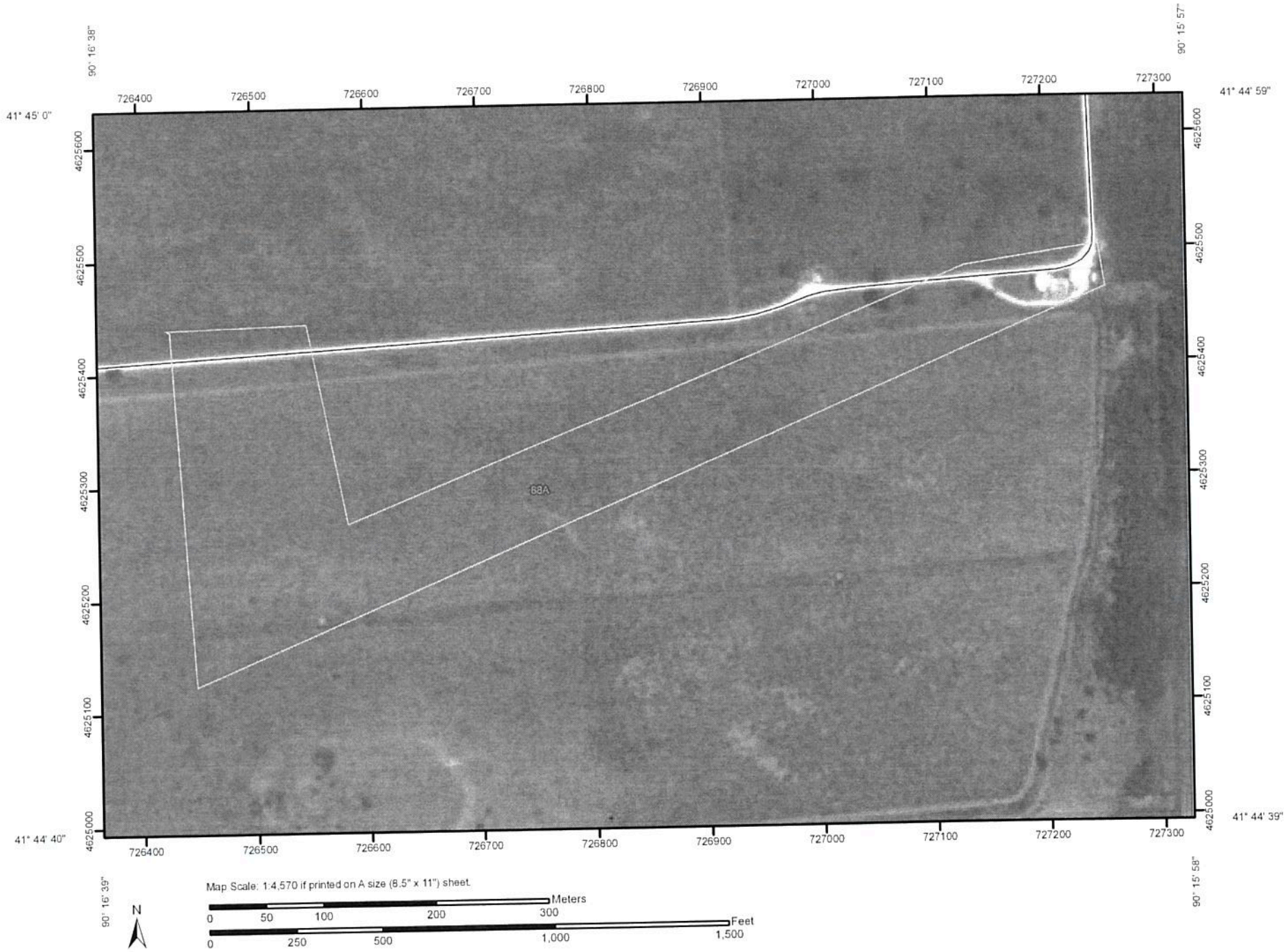
Describe your record retention procedures:

The Contractor will keep the SWPPP and all changes to it, including inspection and maintenance records, at the site during construction. Once the Notice of Termination has been submitted to the IEPA, the Contractor will return a copy of the SWPPP and all changes to it, including inspection and maintenance records, to the Owner. The Owner shall keep the copy on file for a period of three years.

Appendix A
General Location Map


MISSISSIPPI RIVER
3M CORDOVA PLANT
I-84
261 ST. N
PROJECT SITE
DRIVE
222 AVE. N
MODEL - CORDOVA, ILLINOIS
CIVIL CAD MODEL
CORD-888-C-BASE

Appendix B
Site Maps


90° 16' 38"
90° 15' 57"
41° 45' 0"
41° 44' 59"
41° 44' 40"
41° 44' 39"
90° 16' 39"
90° 15' 58"
726400
726500
726600
726700
726800
726900
727000
727100
727200
727300
4625600
4625500
4625400
4625300
4625200
4625100
4625000
68A
Map Scale: 1:4,570 if printed on A size (8.5" x 11") sheet.
N
Meters
0
50
100
200
300
Feet
0
250
500
1,000
1,500

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Units

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other

Special Line Features
- Gully
- Short Steep Slope
- Other

Political Features
- Cities

Water Features
- Oceans
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

MAP INFORMATION

Map Scale: 1:4,570 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:12,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 15N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Rock Island County, Illinois
Survey Area Data: Version 7, Jan 8, 2010

Date(s) aerial images were photographed: 6/16/2007

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Rock Island County, Illinois (IL161)			
Map Unit Symbol	**Map Unit Name**	**Acres in AOI**	**Percent of AOI**
88A	Sparta loamy sand, 0 to 2 percent slopes	22.0	100.0%
Totals for Area of Interest		**22.0**	**100.0%**

Appendix C
General Stormwater Permit for Construction Activity
(IL R10)

NPDES Permit No. ILR10

General NPDES Permit No. ILR10

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276
www.epa.state.il.us

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

General NPDES Permit
For
Storm Water Discharges From Construction Site Activities

Expiration Date: July 31, 2013

Issue Date: August 11, 2008

Effective Date: August 11, 2008

In compliance with the provisions of the Illinois Environmental Protection Act, the Illinois Pollution Control Board Rules and Regulations (35 Ill. Adm. Code, Subtitle C, Chapter I), and the Clean Water Act, and the regulations thereunder the following discharges are authorized by this permit in accordance with the conditions and attachments herein.

Alan Keller

Alan Keller, P.E.
Manager, Permit Section
Division of Water Pollution Control

Part I. COVERAGE UNDER THIS PERMIT

A. **Permit Area**. The permit covers all areas of the State of Illinois with discharges to any waters of the State.

B. **Eligibility**.

1. This permit shall authorize all discharges of storm water associated with industrial activity from construction sites that will result in the disturbance of one or more acres total land area, construction sites less than one acre of total land that is part of a larger common plan of development or sale if the larger common plan will ultimately disturb one or more acres total land area. This permit also authorizes discharges from construction sites designated by the Agency that have the potential for contribution to a violation of water quality standards or significant contribution of pollutants to waters of the State, occurring after the effective date of this permit (including discharges occurring after the effective date of this permit are also authorized by this permit, except for discharges identified under Part I.B.3 (Limitations on Coverage).

2. This permit may only authorize a storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:

   a. the industrial source other than construction is located on the same site as the construction activity;

   b. storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and

   c. storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants and dedicated concrete plants) are covered by a different NPDES general permit or individual permit authorizing such discharges.

3. **Limitations on Coverage**. The following storm water discharges from construction sites are not authorized by this permit:

   a. storm water discharges associated with industrial activity that originate from the site after construction activities have been completed and the site has undergone final stabilization;

b. discharges that are mixed with sources of non-storm water other than discharges identified in Part III.A (Prohibition on Non-Storm Water Discharges) of this permit and in compliance with paragraph IV.D.5 (Non-Storm Water Discharges) of this permit;

c. storm water discharges associated with industrial activity that are subject to an existing NPDES individual or general permit or which are issued a permit in accordance with Part VI.N (Requiring an Individual Permit or an Alternative General Permit) of this permit. Such discharges may be authorized under this permit after an existing permit expires provided the existing permit did not establish numeric limitations for such discharges;

d. storm water discharges from construction sites that the Agency has determined to be or may reasonably be expected to be contributing to a violation of a water quality standard; and

e. Storm water discharges that the Agency, at its discretion, determines are not appropriately authorized or controlled by this general permit.

f. Storm water discharges to any receiving water specified under 35 Ill. Adm. Code 302.105(d)(6).

C. **Authorization.**

1. In order for storm water discharges from construction sites to be authorized to discharge under this general permit a discharger must submit a Notice of Intent (NOI) in accordance with the requirements of Part II below, using an NOI form provided by the Agency.

2. Where a new contractor is selected after the submittal of an NOI under Part II below, a new Notice of Intent (NOI) must be submitted by the owner in accordance with Part II.

3. For projects that have complied with State law on historic preservation and endangered species prior to submittal of the NOI, through coordination with the Illinois Historic Preservation Agency and the Illinois Department of Natural Resources or through fulfillment of the terms of interagency agreements with those agencies, the NOI shall indicate that such compliance has occurred.

4. Unless notified by the Agency to the contrary, dischargers who submit an NOI in accordance with the requirements of this permit are authorized to discharge storm water from construction sites under the terms and conditions of this permit in 30 days after the date the NOI is received by the Agency.

5. The Agency may deny coverage under this permit and require submittal of an application for an individual NPDES permit based on a review of the NOI or other information.

Part II. NOTICE OF INTENT REQUIREMENTS

A. **Deadlines for Notification.**

1. To receive authorization under this general permit, a discharger must submit a completed Notice of Intent (NOI) in accordance with Part VI.G (Signatory Requirements) and the requirements of this Part in sufficient time to allow a 30 day review period after the receipt of the NOI by the Agency and the start of construction. The completed NOI may be submitted electronically to the following email address: epa.constilr10swppp@illinois.gov

2. Discharges that were previously covered by a valid General NPDES Permit for Storm Water Discharges from Construction Site Activities are automatically covered by this permit.

3. A discharger may submit an NOI in accordance with the requirements of this Part after the start of construction. In such instances, the Agency may bring an enforcement action for any discharges of storm water associated with industrial activity from a construction site that have occurred on or after the start of construction.

B. **Failure to Notify**. Dischargers who fail to notify the Agency of their intent to be covered, and discharge storm water associated with construction site activity to Waters of the State without an NPDES permit, are in violation of the Environmental Protection Act and Clean Water Act.

C. **Contents of Notice of Intent**. The Notice of Intent shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit by all of the entities identified in paragraph 2 below and shall include the following information:

1. The mailing address, and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the approximate center of the facility to the nearest 15 seconds, or the nearest quarter section (if the section, township and range is provided) that the construction site is located in;

2. The owner's name, address, telephone number, and status as Federal, State, private, public or other entity;

3. The name, address and telephone number of the general contractor(s) that have been identified at the time of the NOI submittal;

4. The name of the receiving water(s), or if the discharge is through a municipal separate storm sewer, the name of the municipal operator of the storm sewer and the ultimate receiving water(s);

5. The number of any NPDES permit for any discharge (including non-storm water discharges) from the site that is currently authorized by an NPDES permit;

6. A description of the project, detailing the complete scope of the project, estimated timetable for major activities and an estimate of the number of acres of the site on which soil will be disturbed; and

7. An electronic copy of the storm water pollution prevention plan that has been prepared for the site in accordance with Part IV of this permit. The electronic copy shall be submitted to the Agency at the following email address: epa.constilr10swppp@illinois.gov

D. **Where to Submit.**

1. Facilities which discharge storm water associated with construction site activity must use an NOI form provided by the Agency. NOIs must be signed in accordance with Part VI.G (Signatory Requirements) of this permit. NOIs and the applicable fee for construction site activities are to be submitted by certified mail to the Agency at the following address:

   Illinois Environmental Protection Agency
   Division of Water Pollution Control, Mail Code #15
   Attention: Permit Section
   1021 North Grand Avenue East
   Post Office Box 19276
   Springfield, Illinois 62794-9276

   The completed NOI and SWPPP may be submitted electronically to the following email address: epa.constril10swppp@illinois.gov

2. A copy of the letter of notification of coverage along with the General NPDES Permit for Storm Water Discharges from Construction Site Activities or other indication that storm water discharges from the site are covered under an NPDES permit shall be posted at the site in a prominent place for public viewing (such as alongside a building permit).

E. **Additional Notification.** Facilities which are operating under approved local sediment and erosion plans, grading plans, or storm water management plans, in addition to filing copies of the Notice of Intent in accordance with Part D above, shall also submit signed copies of the Notice of Intent to the local agency approving such plans in accordance with the deadlines in Part A above. See Part IV.D.2.d (Approved State or Local Plans).

F. **Notice of Termination.** Where a site has been finally stabilized and all storm water discharges from construction sites that are authorized by this permit are eliminated, the permittee of the facility must submit a completed Notice of Termination that is signed in accordance with Part VI.G (Signatory Requirements) of this permit.

1. The Notice of Termination shall include the following information:

   a. The mailing address, and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of the latitude and longitude of the approximate center of the facility to the nearest 15 seconds, or the nearest quarter section (if the section, township and range is provided) that the construction site is located in;

   b. The owner's name, address, telephone number, and status as Federal, State, private, public or other entity;

   c. The name, address and telephone number of the general contractor(s); and

   d. The following certification signed in accordance with Part VI.G (Signatory Requirements) of this permit:

      "I certify under penalty of law that all storm water discharges associated with construction site activity from the identified facility that are authorized by NPDES general permit ILR10 have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with construction site activity by the general permit, and that discharging pollutants in storm water associated with construction site activity to Waters of the State is unlawful under the Environmental Protection Act and Clean Water Act where the discharge is not authorized by a NPDES permit. I also understand that the submittal of this notice of termination does not release an operator from liability for any violations of this permit or the Clean Water Act."

      For the purposes of this certification, elimination of storm water discharges associated with industrial activity means that all disturbed soils at the identified facility have been finally stabilized and temporary erosion and sediment control measures have been removed or will be removed at an appropriate time, or that all storm water discharges associated with construction activities from the identified site that are authorized by a NPDES general permit have otherwise been eliminated.

2. All Notices of Termination are to be sent to the Agency to the mailing address in Part II.D.1, using the form provided by the Agency.

Part III. SPECIAL CONDITIONS, MANAGEMENT PRACTICES, AND OTHER NON-NUMERIC LIMITATIONS

A. **Prohibition on Non-Storm Water Discharges.**

1. Except as provided in Part I paragraph B.2 and paragraph 2 below, all discharges covered by this permit shall be composed entirely of storm water.

2. a. Except as provided in paragraph b below, discharges of materials other than storm water must be in compliance with a NPDES permit (other than this permit) issued for the discharge.

b. The following non-storm water discharges may be authorized by this permit provided the non-storm water component of the discharges is in compliance with Part IV.D.5 (Non-Storm Water Discharges): discharges from fire fighting activities; fire hydrant flushings; waters used to wash vehicles where detergents are not used; waters used to control dust; potable water sources including uncontaminated waterline flushings; landscape irrigation drainages; routine external building washdown which does not use detergents; pavement washwaters where spills or leaks of toxic or hazardous materials have not occurred (unless all spilled material has been removed) and where detergents are not used; uncontaminated air conditioning condensate; springs; uncontaminated ground water; and foundation or footing drains where flows are not contaminated with process materials such as solvents.

B. **Discharges into Receiving Waters With an Approved Total Maximum Daily Load (TMDL):**

Discharges to waters for which there is a TMDL allocation for sediment or a parameter that addressed sediment (such as total suspended solids, turbidity, or siltation) are not eligible for coverage under this permit unless you develop and certify a SWPPP that is consistent with the assumptions and requirements in the approved TMDL. To be eligible for coverage under this general permit, operators must incorporate into their SWPPP any conditions applicable to their discharges necessary for consistency with the assumptions and requirements of the TMDL within any timeframes established in the TMDL. If a specific numeric waste load allocation has been established that would apply to the project's discharges, the operator must incorporate that allocation into its SWPPP and implement necessary steps to meet that allocation. Please refer to the Agency website at: http://www.epa.state.il.us/water/tmdl/report-status.html

C. Discharges covered by this permit, alone or in combination with other sources, shall not cause or contribute to a violation of any applicable water quality standard.

Part IV. STORM WATER POLLUTION PREVENTION PLANS

A storm water pollution prevention plan shall be developed for each construction site covered by this permit. Storm water pollution prevention plans shall be prepared in accordance with good engineering practices. The plan shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with construction site activity from the facility. In addition, the plan shall describe and ensure the implementation of best management practices which will be used to reduce the pollutants in storm water discharges associated with construction site activity and to assure compliance with the terms and conditions of this permit. Facilities must implement the provisions of the storm water pollution prevention plan required under this part as a condition of this permit.

A. **Deadlines for Plan Preparation and Compliance.**

The plan shall:

1. Be completed prior to the start of the construction to be covered under this permit and submitted electronically to the Agency; and

2. Provide for compliance with the terms and schedule of the plan beginning with the initiation of construction activities.

B. **Signature, Plan Review and Notification.**

1. The plan shall be signed in accordance with Part VI.G (Signatory Requirements), and be retained on-site at the facility which generates the storm water discharge in accordance with Part VI.E (Duty to Provide Information) of this permit.

2. Prior to commencement of construction, the permittee shall provide the plan to the Agency. Said plan shall be available at the site.

3. The permittee shall make plans available upon request from this Agency or a local agency approving sediment and erosion plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system.

4. The Agency may notify the permittee at any time that the plan does not meet one or more of the minimum requirements of this Part. Such notification shall identify those provisions of the permit which are not being met by the plan, and identify which provisions of the plan require modifications in order to meet the minimum requirements of this part. Within 7 days from receipt of notification from the Agency, the permittee shall make the required changes to the plan and shall submit to the Agency a written certification that the requested changes have been made. Failure to comply shall terminate authorization under this permit.

5. All storm water pollution prevention plans and all completed inspection forms/reports required under this permit are considered reports that shall be available to the public at any reasonable time upon request. However, the permittee may claim any portion of a storm water pollution prevention plan as confidential in accordance with 40 CFR Part 2.

C. **Keeping Plans Current.** The permittee shall amend the plan whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to Waters of the State and which has not otherwise been addressed in the plan or if the storm water pollution prevention plan proves to be ineffective in eliminating or significantly minimizing pollutants from sources identified under paragraph D.2 below, or in otherwise achieving the general objectives of controlling pollutants in storm water discharges associated with construction site activity. In addition, the plan shall be amended to identify any new contractor and/or subcontractor that will implement a measure of the storm water pollution prevention plan. Amendments to the plan may be reviewed by the Agency in the same manner as Part IV.B above. Any revisions of the documents for the storm water pollution prevention plan shall be kept on site at all times.

D. **Contents of Plan.** The storm water pollution prevention plan shall include the following items:

1. **Site Description.** Each plan shall, provide a description of the following:

a. A description of the nature of the construction activity or demolition work;

b. A description of the intended sequence of major activities which disturb soils for major portions of the site (e.g. clearing, grubbing, excavation, grading);

c. An estimate of the total area of the site and the total area of the site that is expected to be disturbed by excavation, grading, or other activities;

d. An estimate of the runoff coefficient of the site after construction activities are completed and existing data describing the soil or the quality of any discharge from the site;

e. A site map indicating drainage patterns and approximate slopes anticipated before and after major grading activities, locations where vehicles enter or exit the site and controls to prevent offsite sediment tracking, areas of soil disturbance, the location of major structural and nonstructural controls identified in the plan, the location of areas where stabilization practices are expected to occur, surface waters (including wetlands), and locations where storm water is discharged to a surface water; and

f. The name of the receiving water(s) and the ultimate receiving water(s), and areal extent of wetland acreage at the site.

2. **Controls.** Each plan shall include a description of appropriate controls that will be implemented at the construction site. The Illinois Urban Manual (http://www.il.nrcs.usda.gov/technical/engineer/urban/index.html) or other similar documents shall be used for developing the appropriate management practices, controls or revisions of the plan. The plan will clearly describe for each major activity identified in paragraph D.1 above, appropriate controls and the timing during the construction process that the controls will be implemented. (For example, perimeter controls for one portion of the site will be installed after the clearing and grubbing necessary for installation of the measure, but before the clearing and grubbing for the remaining portions of the site. Perimeter controls will be actively maintained until final stabilization of those portions of the site upward of the perimeter control. Temporary perimeter controls will be removed after final stabilization). The description of controls shall address as appropriate the following minimum components:

a. **Erosion and Sediment Controls.**

(i) **Stabilization Practices.** A description of interim and permanent stabilization practices, including site-specific scheduling of the implementation of the practices. Site plans should ensure that existing vegetation is preserved where practicable and that disturbed portions of the site are stabilized. Stabilization practices may include: temporarily seeding, permanent seeding, mulching, geotextiles, sod stabilization, vegetative buffer strips, protection of trees, preservation of mature vegetation, staged or staggered development, and other appropriate measures. A record of the dates when major grading activities occur, when construction activities temporarily or permanently cease on a portion of the site, and when stabilization measures are initiated shall be included in the plan. Except as provided in paragraphs (A) and (B) below, stabilization measures shall be initiated as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased as follows:

(A) Where the initiation of stabilization measures by the 7th day after construction activity temporarily or permanently ceases on a portion of the site is precluded by snow cover, stabilization measures shall be initiated as soon as practicable.

(B) Where construction activity will resume on a portion of the site within 14 days from when activities ceased, (e.g. the total time period that construction activity is temporarily ceased is less than 14 days) then stabilization measures do not have to be initiated on that portion of site by the 7th day after construction activity temporarily ceased.

(ii) **Structural Practices.** A description of structural practices utilized to divert flows from exposed soils, store flows or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Such practices may include silt fences, earth dikes, drainage swales, sediment traps, check dams, subsurface drains, pipe slope drains, level spreaders, storm drain inlet protection, rock outlet protection, reinforced soil retaining systems, gabions, and temporary or permanent sediment basins. Structural practices should be placed on upland soils to the degree practicable. The installation of these devices may be subject to Section 404 of the CWA.

(iii) **Best Management Practices for Impaired Waters.** For any site which discharges directly to an impaired water identified on the Agency's website for 303(d) listing for suspended solids, turbidity, or siltation the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event. If required by federal regulations or the Illinois Environmental Protection Agency's Illinois Urban Manual, the storm water pollution prevention plan shall adhere to a more restrictive design criteria. Please refer to the Agency's website at: (http://www.epa.state.il.us/water/tmdl/303d-list.html)

b. **Storm Water Management.** A description of measures that will be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. Structural measures should be placed on upland soils to the degree attainable. The installation of these devices may be subject to Section 404 of the CWA. This permit only addresses the installation of storm water management measures, and not the ultimate operation and maintenance of such structures after the construction activities have been completed and the site has undergone final stabilization. Permittees are responsible for only the installation and maintenance of storm water management measures prior to final stabilization of the site, and are not responsible for maintenance after storm water discharges associated with industrial activity have been eliminated from the site.

(i) Such practices may include: storm water detention structures (including wet ponds); storm water retention structures; flow attenuation by use of open vegetated swales and natural depressions; infiltration of runoff onsite; and sequential systems (which combine several practices). The storm water pollution prevention plan shall include an explanation of the technical basis used to select the practices to control pollution where flows exceed predevelopment levels.

(ii) Velocity dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity flow from the structure to a water course so that the natural physical and biological characteristics and functions are

maintained and protected (e.g. maintenance of hydrologic conditions, such as the hydroperiod and hydrodynamics present prior to the initiation of construction activities).

(iii) Unless otherwise specified in the Illinois Environmental Protection Agency's Illinois Urban Manual, the storm water pollution prevention plan shall be designed for a storm event equal to or greater than a 25-year 24-hour rainfall event.

c. **Other Controls.**

(i) **Waste Disposal**. No solid materials, including building materials, shall be discharged to Waters of the State, except as authorized by a Section 404 permit.

(ii) The plan shall ensure and demonstrate compliance with applicable State and/or local waste disposal, sanitary sewer or septic system regulations.

(iii) For construction sites that receive concrete or asphalt from off site locations, the plan must identify and include appropriate controls and measures to reduce or eliminate these discharges.

d. **Approved State or Local Plans.**

(i) The management practices, controls and other provisions contained in the storm water pollution prevention plan must be at least as protective as the requirements contained in Illinois Environmental Protection Agency's Illinois Urban Manual, 2002. Facilities which discharge storm water associated with construction site activities must include in their storm water pollution prevention plan procedures and requirements specified in applicable sediment and erosion site plans or storm water management plans approved by local officials. Requirements specified in sediment and erosion site plans or site permits or storm water management site plans or site permits approved by local officials that are applicable to protecting surface water resources are, upon submittal of an NOI to be authorized to discharge under this permit, incorporated by reference and are enforceable under this permit. The plans shall include all requirements of this permit and include more stringent standards required by any local approval. This provision does not apply to provisions of master plans, comprehensive plans, non-enforceable guidelines or technical guidance documents that are not identified in a specific plan or permit that is issued for the construction site.

(ii) Dischargers seeking alternative permit requirements are not authorized by this permit and shall submit an individual permit application in accordance with 40 CFR 122.26 at the address indicated in Part II.D (Where to Submit) of this permit, along with a description of why requirements in approved local plans or permits should not be applicable as a condition of an NPDES permit.

3. **Maintenance**. The plan shall include a description of procedures to maintain in good and effective operating conditions vegetation, erosion and sediment control measures and other protective measures identified in the site plan.

4. **Inspections**. Qualified personnel (provided by the permittee) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days and within 24 hours of the end of a storm that is 0.5 inches or greater or equivalent snowfall. Qualified personnel means a person knowledgeable in the principles and practices of erosion and sediment controls measures, such as a licensed Professional Engineer (P.E.), a Certified Professional in Erosion and Sediment Control (CPESC), a Certified Erosion Sediment and Storm Water Inspector (CESSWI) or other knowledgeable person who possesses the skills to assess conditions at the construction site that could impact storm water quality and to assess the effectiveness of any sediment and erosion control measures selected to control the quality of storm water discharges from the construction activities.

a. Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Where discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

b. Based on the results of the inspection, the description of potential pollutant sources identified in the plan in accordance with Part IV.D.1 (Site Description) of this permit and pollution prevention measures identified in the plan in accordance with Part IV.D.2 (Controls) of this permit shall be revised as appropriate as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan within 7 calendar days following the inspection.

c. A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the storm water pollution prevention plan, and actions taken in accordance with paragraph b above shall be made and retained as part of the storm water pollution prevention plan for at least three years from the date that the permit coverage expires or is terminated. All inspection reports shall be retained at the construction site. The report shall be signed in accordance with Part VI.G (Signatory Requirements) of this permit.

d. The permittee shall notify the appropriate Agency Field Operations Section office by email at: epa.swnoncomp@illinois.gov , telephone or fax within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit. The permittee shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit. Submission shall be on forms provided by the Agency and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact which may have resulted from the noncompliance.

e. All reports of noncompliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements).

f. After the initial contact has been made with the appropriate Agency Field Operations Section Office, all reports of noncompliance shall be mailed to the Agency at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Post Office Box 19276
Springfield, Illinois 62794-9276

5. **Non-Storm Water Discharges.** Except for flows from fire fighting activities, sources of non-storm water listed in Part III.A.2 of this permit that are combined with storm water discharges associated with industrial activity must be identified in the plan. The plan shall identify and insure the implementation of appropriate pollution prevention measures for the non-storm water component(s) of the discharge.

E. **Additional requirements for storm water discharges from industrial activities other than construction, including dedicated asphalt plants, and dedicated concrete plants.** This permit may only authorize any storm water discharge associated with industrial activity from a construction site that is mixed with a storm water discharge from an industrial source other than construction, where:

1. The industrial source other than construction is located on the same site as the construction activity;

2. Storm water discharges associated with industrial activity from the areas of the site where construction activities are occurring are in compliance with the terms of this permit; and

3. Storm water discharges associated with industrial activity from the areas of the site where industrial activity other than construction are occurring (including storm water discharges from dedicated asphalt plants (other than asphalt emulsion facilities) and dedicated concrete plants) are in compliance with the terms, including applicable NOI or application requirements, of a different NPDES general permit or individual permit authorizing such discharges.

F. **Contractors.**

1. The storm water pollution prevention plan must clearly identify for each measure identified in the plan, the contractor(s) or subcontractor(s) that will implement the measure. All contractors and subcontractors identified in the plan must sign a copy of the certification statement in paragraph 2 below in accordance with Part VI.G (Signatory Requirements) of this permit. All certifications must be included in the storm water pollution prevention plan except for owners that are acting as contractors.

2. **Certification Statement.** All contractors and subcontractors identified in a storm water pollution prevention plan in accordance with paragraph 1 above shall sign a copy of the following certification statement before conducting any professional service at the site identified in the storm water pollution prevention plan:

"I certify under penalty of law that I understand the terms and conditions of the general National Pollutant Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification."

The certification must include the name and title of the person providing the signature in accordance with Part VI.G of this permit: the name, address and telephone number of the contracting firm; the address (or other identifying description) of the site; and the date the certification is made.

Part V. RETENTION OF RECORDS

A. The permittee shall retain copies of storm water pollution prevention plans and all reports and notices required by this permit, and records of all data used to complete the Notice of Intent to be covered by this permit, for a period of at least three years from the date that the permit coverage expires or is terminated. This period may be extended by request of the Agency at any time.

B. The permittee shall retain a copy of the storm water pollution prevention plan and any revisions to said plan required by this permit at the construction site from the date of project initiation to the date of final stabilization.

Part VI. STANDARD PERMIT CONDITIONS

A. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Illinois Environmental Protection Act and the CWA and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

B. **Continuation of the Expired General Permit.** This permit expires five years from the date of issuance. An expired general permit continues in force and effect until a new general permit or an individual permit is issued. Only those facilities authorized to discharge under the expiring general permit are covered by the continued permit.

C. **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

D. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

E. **Duty to Provide Information.** The permittee shall furnish within a reasonable time to the Agency or local agency approving sediment and erosion control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system, any information which is requested to determine compliance with this permit. Upon request, the permittee shall also furnish to the Agency or local agency approving sediment and erosion control plans, grading plans, or storm water management plans; or in the case of a storm water discharge associated with industrial activity which discharges through a municipal separate storm sewer system with an NPDES permit, to the municipal operator of the system, copies of all records required to be kept by this permit.

F. **Other Information.** When the permittee becomes aware that he or she failed to submit any relevant facts or submitted incorrect information in the Notice of Intent or in any other report to the Agency, he or she shall promptly submit such facts or information.

G. **Signatory Requirements.** All Notices of Intent, storm water pollution prevention plans, reports, certifications or information either submitted to the Agency or the operator of a large or medium municipal separate storm sewer system, or that this permit requires be maintained by the permittee, shall be signed.

1. All Notices of Intent shall be signed as follows:

   a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (1) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or (2) any person authorized to sign documents that has been assigned or delegated said authority in accordance with corporate procedures;

   b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

   c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes (1) the chief executive officer of the agency, or (2) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

2. All reports required by the permit and other information requested by the Agency shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described above and submitted to the Agency.

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of manager, operator, superintendent, or position of equivalent responsibility or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).

   c. **Changes to Authorization.** If an authorization under Part I.C (Authorization) is no longer accurate because a different individual or position has responsibility for the overall operation of the construction site, a new authorization satisfying the requirements of Part I.C must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

   d. **Certification.** Any person signing documents under this Part shall make the following certification:

      "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

H. **Penalties for Falsification of Reports.** Section 309(c)(4) of the Clean Water Act provides that any person who knowingly makes any false material statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000, or by imprisonment for not more than 2 years, or by both. Section 44(j)(4) and (5) of the Environmental Protection Act provides that any person who knowingly makes any false statement, representation, or certification in an application form, or form pertaining to a NPDES permit commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed $10,000 for each day of violation.

I. **Penalties for Falsification of Monitoring Systems.** The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by fines and imprisonment described in Section 309 of the CWA. The Environmental Protection Act provides that any person who knowingly renders inaccurate any monitoring device or record required in connection with any NPDES permit or with any discharge which is subject to the provisions of subsection (f) of Section 12 of the Act commits a Class A misdemeanor, and in addition to any other penalties provided by law is subject to a fine not to exceed $10,000 for each day of violation.

J. **Oil and Hazardous Substance Liability.** Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under section 311 of the CWA.

K. **Property Rights.** The issuance of this permit does not convey any property rights of any sort, nor any exclusive privileges, nor does it authorize any injury to private property nor any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

L. **Severability.** The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit shall not be affected thereby.

M. **Transfers.** This permit is not transferable to any person except after notice to the Agency. The Agency may require the discharger to apply for and obtain an individual NPDES permit as stated in Part I.C (Authorization).

N. **Requiring an Individual Permit or an Alternative General Permit.**

1. The Agency may require any person authorized by this permit to apply for and/or obtain either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition the Agency to take action under this paragraph. Where the Agency requires a discharger authorized to discharge under this permit to apply for an individual NPDES permit, the Agency shall notify the discharger in writing that a permit application is required. This notification shall include a brief statement of the reasons for this decision, an application form, a statement setting a deadline for the discharger to file the application, and a statement that on the effective date of the individual NPDES permit or the alternative general permit as it applies to the individual permittee, coverage under this general permit shall automatically terminate. Applications shall be submitted to the Agency indicated in Part II.D (Where to Submit) of this permit. The Agency may grant additional time to submit the application upon request of the applicant. If a discharger fails to submit in a timely manner an individual NPDES permit application as required by the Agency under this paragraph, then the applicability of this permit to the individual NPDES permittee is automatically terminated at the end of the day specified by the Agency for application submittal. The Agency may require an individual NPDES permit based on:

   a. information received which indicates the receiving water may be of particular biological significance pursuant to 35 Ill. Adm. Code 302.105(d)(6);

   b. whether the receiving waters are impaired waters for suspended solids, turbidity or siltation as identified by the Agency's 303(d) listing;

   c. size of construction site, proximity of site to the receiving stream, etc.

   The Agency may also require monitoring of any storm water discharge from any site to determine whether an individual permit is required.

2. Any discharger authorized by this permit may request to be excluded from the coverage of this permit by applying for an individual permit. In such cases, the permittee shall submit an individual application in accordance with the requirements of 40 CFR 122.26(c)(1)(ii), with reasons supporting the request, to the Agency at the address indicated in Part II.D (Where to Submit) of this permit. The request may be granted by issuance of any individual permit or an alternative general permit if the reasons cited by the permittee are adequate to support the request.

3. When an individual NPDES permit is issued to a discharger otherwise subject to this permit, or the discharger is authorized to discharge under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee is automatically terminated on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit, whichever the case may be. When an individual NPDES permit is denied to a discharger otherwise subject to this permit, or the discharger is denied for coverage under an alternative NPDES general permit, the applicability of this permit to the individual NPDES permittee remains in effect, unless otherwise specified by the Agency.

O. **State/Environmental Laws.** No condition of this permit shall release the permittee from any responsibility or requirements under other environmental statutes or regulations.

P. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit and with the requirements of storm water pollution prevention plans. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. Proper operation and maintenance requires the operation of backup or auxiliary facilities or similar systems, installed by a permittee only when necessary to achieve compliance with the conditions of the permit.

Q. **Inspection and Entry.** The permittee shall allow the IEPA, or an authorized representative upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

2. Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;

3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

R. **Permit Actions.** This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Part VII. REOPENER CLAUSE

A. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the discharger may be required to obtain an individual permit or an alternative general permit in accordance with Part I.C (Authorization) of this permit or the permit may be modified to include different limitations and/or requirements.

B. Permit modification or revocation will be conducted according to provisions of 35 Ill. Adm. Code, Subtitle C, Chapter I and the provisions of 40 CFR 122.62, 122.63, 122.64 and 124.5 and any other applicable public participation procedures.

C. The Agency will reopen and modify this permit under the following circumstances:

1. the U.S. EPA amends its regulations concerning public participation;

2. a court of competent jurisdiction binding in the State of Illinois or the 7th Circuit Court of Appeals issues an order necessitating a modification of public participation for general permits; or

3. to incorporate federally required modifications to the substantive requirements of this permit.

Part VIII. DEFINITIONS

"Agency" means the Illinois Environmental Protection Agency.

"Best Management Practices" ("BMPs") means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control construction site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

"Commencement of Construction or Demolition Activities" The initial disturbance of soils associated with clearing, grading, or excavating activities or other construction or demolition activities.

"CWA" means Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972) Pub. L. 92-500, as amended Pub. L. 95-217, Pub. L. 95-576, Pub. L. (96-483 and Pub. L. 97-117, 33 U.S.C. 1251 et seq.).

"Dedicated portable asphalt plant" A portable asphalt plant that is located on or contiguous to a construction site and that provides asphalt only to the construction site that the plant is located on or adjacent to. The term dedicated portable asphalt plant does not include facilities that are subject to the asphalt emulsion effluent limitation guideline at 40 CFR 443.

"Dedicated portable concrete plant" A portable concrete plant that is located on or contiguous to a construction site and that provides concrete only to the construction site that the plant is located on or adjacent to.

"Dedicated sand or gravel operation" An operation that produces sand and/or gravel for a single construction project.

"Director" means the Director of the Illinois Environmental Protection Agency or an authorized representative.

"Final Stabilization" means that all soil disturbing activities at the site have been completed, and either of the two following conditions are met:

(i) A uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a density of 70 percent of the native background vegetative cover for the area has been established on all unpaved areas and areas not covered by permanent structures, or

(ii) Equivalent permanent stabilization measures (such as the use of riprap, gabions, or geotextiles) have been employed.

For individual lots in residential construction, final stabilization means that either:

(i) The homebuilder has completed final stabilization as specified above, or

(ii) The homebuilder has established temporary stabilization including perimeter controls for an individual lot prior to occupation of the home by the homeowner and informing the homeowner of the need for, and benefits of, final stabilization.

"Large and Medium municipal separate storm sewer system" means all municipal separate storm sewers that are either:

(i) Located in an incorporated place (city) with a population of 100,000 or more as determined by the latest Decennial Census by the Bureau of Census (these cities are listed in Appendices F and G of 40 CFR Part 122); or

(ii) Located in the counties with unincorporated urbanized populations of 100,000 or more, except municipal separate storm sewers that are located in the incorporated places, townships or towns within such counties (these counties are listed in Appendices H and I of 40 CFR Part 122); or

(iii) Owned or operated by a municipality other than those described in paragraph (i) or (ii) and that are designated by the Director as part of the large or medium municipal separate storm sewer system.

"NOI" means notice of intent to be covered by this permit (see Part II of this permit.)

"Point Source" means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharges. This term does not include return flows from irrigated agriculture or agricultural storm water runoff.

"Runoff coefficient" means the fraction of total rainfall that will appear at the conveyance as runoff.

"Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.

"Storm Water Associated with Industrial Activity" means the discharge from any conveyance which is used for collecting and conveying storm water and which is directly related to manufacturing, processing or raw materials storage areas at an industrial plant. The term does not include discharges from facilities or activities excluded from the NPDES program. For the categories of industries identified in subparagraphs (i) through (x) of this subsection, the term includes, but is not limited to, storm water discharges from industrial plant yards; immediate access roads and rail lines used or traveled by carriers of raw materials, manufactured products, waste material, or by-products used or created by the facility; material handling sites; refuse sites; sites used for the application or disposal of process waste waters (as defined at 40 CFR 401); sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and significant materials remain and are exposed to storm water. For the categories of industries identified in subparagraph (xi), the term includes only storm water discharges from all areas listed in the previous sentence (except access roads) where material handling equipment or activities, raw materials, intermediate products, final products, waste materials, by-products, or industrial machinery are exposed to storm water. For the purposes of this paragraph, material handling activities include the storage, loading and unloading, transportation, or conveyance of any raw material, intermediate product, finished product, by-product or waste product. The term excludes areas located on plant lands separate from the plant's industrial activities, such as office buildings and accompanying parking lots as long as the drainage from the excluded areas is not mixed with storm water drained from the above described areas. Industrial facilities (including industrial facilities that are Federally or municipally owned or operated that meet the description of the facilities listed in this paragraph (i)- (xi)) include those facilities designated under 40 CFR 122.26(a)(1)(v). The following categories of facilities are considered to be engaging in "industrial activity" for purposes of this subsection:

(i) Facilities subject to storm water effluent limitations guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N (except facilities with toxic pollutant effluent standards which are exempted under category (xi) of this paragraph);

(ii) Facilities classified as Standard Industrial Classifications 24 (except 2434), 26 (except 265 and 267), 28, 29, 311, 32, 33, 3441, 373;

(iii) Facilities classified as Standard Industrial Classifications 10 through 14 (mineral industry) including active or inactive mining operations (except for areas of coal mining operations meeting the definition of a reclamation area under 40 CFR 434.11(l)) and oil and gas exploration, production, processing, or treatment operations, or transmission facilities that discharge storm water contaminated by contact with or that has come into contact with, any overburden, raw material, intermediate products, finished products, byproducts or waste products located on the site of such operations; inactive mining operations are mining sites that are not being actively mined, but which have an identifiable owner/operator;

(iv) Hazardous waste treatment, storage, or disposal facilities, including those that are operating under interim status or a permit under Subtitle C of RCRA;

(v) Landfills, land application sites, and open dumps that have received any industrial wastes (waste that is received from any of the facilities described under this subsection) including those that are subject to regulation under Subtitle D of RCRA;

(vi) Facilities involved in the recycling of materials, including metal scrapyards, battery reclaimers, salvage yards, and automobile junkyards, including but limited to those classified as Standard Industrial Classification 5015 and 5093;

(vii) Steam electric power generating facilities, including coal handling sites;

(viii) Transportation facilities classified as Standard Industrial Classifications 40, 41, 42, 44, and 45 which have vehicle maintenance shops, equipment cleaning operations, or airport deicing operations. Only those portions of the facility that are either involved in vehicle maintenance (including vehicle rehabilitation, mechanical repairs, painting, fueling, and lubrication), equipment cleaning operations, airport deicing operations, or which are otherwise identified under subparagraphs (i)-(vii) or (ix)-(xi) of this subsection are associated with industrial activity;

(ix) Treatment works treating domestic sewage or any other sewage sludge or wastewater treatment device or system, used in the storage treatment, recycling, and reclamation of municipal or domestic sewage, including land dedicated to the disposal of sewage sludge that are located within the confines of the facility, with a design flow of 1.0 mgd or more, or required to have an approved pretreatment program under 40 CFR 403. Not included are farm lands, domestic gardens or lands used for sludge management where sludge is beneficially reused and which are not physically located in the confines of the facility, or areas that are in compliance with 40 CFR 503;

(x) Construction activity including clearing, grading and excavation activities except: operations that result in the disturbance of less than one acre of total land area which are not part of a larger common plan of development or sale unless otherwise designated by the Agency pursuant to **Part I.B.1.**

(xi) Facilities under Standard Industrial Classifications 20, 21, 22, 23, 2434, 25, 265, 267, 27, 283, 31 (except 311), 34 (except 3441), 35, 36, 37 (except 373), 38, 39, 4221-25, (and which are not otherwise included within categories (i)-(x)).

"Waters" mean all accumulations of water, surface and underground, natural, and artificial, public and private, or parts thereof, which are wholly or partially within, flow through, or border upon the State of Illinois, except that sewers and treatment works are not included except as specially mentioned; provided, that nothing herein contained shall authorize the use of natural or otherwise protected waters as sewers or treatment works except that in-stream aeration under Agency permit is allowable.

ILR10TMLPMT_FINAL8-11-08.doc

Appendix D
Application for General Stormwater Permit for Construction Activity (IL R10)
and
Notice of Storm Water Permit Coverage Letter from the IEPA

Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
Notice of Intent (NOI) for General Permit
to Discharge Storm Water Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

For Office Use Only

Permit No. ILR10 _____

OWNER INFORMATION

Company/Owner Name: 3M Company (IL0003140)

Mailing Address: 22614 Route 84 North Phone: (309) 654-2291

City: Cordova State: IL Zip: 61242 Fax: _____

Contact Person: Keith Schmuck E-mail: kdschmuck@mmm.com

Owner Type (select one) Private

MS4 Community: ☐ Yes ☑ No

CONTRACTOR INFORMATION

Contractor Name: Northwest Mechanical, Inc.

Mailing Address: 5885 Tremont Avenue, P.O. Box 2708 Phone: 563-391-1344 x1410

City: Davenport State: IA Zip: 52807 Fax: 563-391-2733

CONSTRUCTION SITE INFORMATION

Select One: ☒ New ☐ Change of information for: ILR10 _____

Project Name: Building 094 General Construction County: Rock Island

Street Address: 1/2 mi east of 22614 Route 84 N City: Cordova IL Zip: 61242

Latitude: 41 (Deg) 43 (Min) 48 (Sec) Longitude: 90 (Deg) 16 (Min) 12 (Sec) 4 Section 20N Township 2E Range

Approximate Construction Start Date June 2011 Approximate Construction End Date August 2011

Total size of construction site in acres: 3.76

If less than 1 acre, is the site part of a larger common plan of development?

☐ Yes ☐ No

Fee Schedule for Construction Sites:
Less than 5 acres - $250
5 or more acres - $750

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Has the SWPPP been submitted to the Agency? ☑ Yes ☐ No

(Submit SWPPP electronically to: epa.constilr10swppp@illinois.gov)

Location of SWPPP for viewing: Address: 22614 Route 84 North City: Cordova

SWPPP contact information:

Inspector qualifications: P.E.

Contact Name: Brad Jones

Phone: (651) 292-4498 Fax: (651) 292-0083 E-mail: brad.jones@tkda.com

Project inspector, if different from above

Inspector qualifications: _____

Inspector's Name: TBD

Phone: _____ Fax: _____ E-mail: _____

IL 532 2104 WPC 623
Rev 5/10

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
Notice of Intent (NOI) for General Permit
to Discharge Storm Water Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

For Office Use Only

Permit No. ILR10 _____

OWNER INFORMATION

Company/Owner Name: _____

Mailing Address: _____ Phone: _____

City: _____ State: ___ Zip: _____ Fax: _____

Contact Person: _____ E-mail: _____

Owner Type (select one) -Select One- _____

CONTRACTOR INFORMATION

MS4 Community: ☐ Yes ☑ No

Contractor Name: Estes Construction

Mailing Address: 131 West 2nd St., Suite 400 (P.O. Box 3608) Phone: 563-322-7301

City: Davenport State: IA Zip: 52801 Fax: 563-322-2503

CONSTRUCTION SITE INFORMATION

Select One: ☒ New ☐ Change of information for: ILR10 _____

Project Name: Building 094 General Construction County: Rock Island

Street Address: 1/2 mi east of 22614 Route 84 N City: Cordova IL Zip: 61242

Latitude:	41	43	48	Longitude:	90	16	12	4	20N	2E
	(Deg)	(Min)	(Sec)		(Deg)	(Min)	(Sec)	Section	Township	Range

Approximate Construction Start Date _____ Approximate Construction End Date _____

Total size of construction site in acres: _____

If less than 1 acre, is the site part of a larger common plan of development?
☐ Yes ☐ No

Fee Schedule for Construction Sites:
Less than 5 acres - $250
5 or more acres - $750

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

Has the SWPPP been submitted to the Agency? ☑ Yes ☐ No

(Submit SWPPP electronically to: epa.constilr10swppp@illinois.gov)

Location of SWPPP for viewing: Address: _____ City: _____

SWPPP contact information:

Inspector qualifications:

Contact Name: _____ -Select One- _____

Phone: _____ Fax: _____ E-mail: _____

Project inspector, if different from above

Inspector qualifications:

Inspector's Name: _____ _____

Phone: _____ Fax: _____ E-mail: _____

IL 532 2104 WPC 623
Rev 5/10

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

TYPE OF CONSTRUCTION (select one)

Construction Type Industrial

SIC Code: _____

Type a detailed description of the project:

Construction of a new well house and underground well water piping. Construction of an aggregate surfaced access road. Construction of surface drainage swales along existing and new access roads and a new culvert joining swales on either side of the access road.

HISTORIC PRESERVATION AND ENDANGERED SPECIES COMPLIANCE

Has the project been submitted to the following state agencies to satisfy applicable requirements for compliance with Illinois law on:

Historic Preservation Agency ☐ Yes ☑ No

Endangered Species ☐ Yes ☑ No

RECEIVING WATER INFORMATION

Does your storm water discharge directly to: ☐ Waters of the State or ☐ Storm Sewer

Owner of storm sewer system: _____

Name of closest receiving water body to which you discharge: N/A

Mail completed form to: Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment. In addition, I certify that the provisions of the permit, including the development and implementation of a storm water pollution prevention plan and a monitoring program plan, will be complied with.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Ken H. Ramm
Owner Signature:

5/3/11
Date:

Ken H. Ramm
Printed Name:

EH&S Manager
Title:

GUIDELINES FOR COMPLETION OF NOTICE OF TERMINATION (NOT) FORM

Please adhere to the following guidelines:

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible.

Submit completed forms to:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

Final stabilization has occurred when:

(a) all soil disturbing activities at the site have been completed;

(b) a uniform perennial vegetative cover with a density of 70% of the native background vegetative cover for the area has been established on all unpaved areas not covered by permanent structures; or

(c) equivalent permanent stabilization measures have been employed.

Illinois Environmental Protection Agency

Bureau of Water • 1021 North Grand Avenue East • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
NOTICE OF TERMINATION (NOT)
of Coverage under the General Permit for Storm Water Discharges Associated with Construction Site Activities

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at the above address.

Permit No. ILR10 _____

OWNER INFORMATION

Owner Name: _____

Owner Type (select one) _____

Mailing Address: _____ Phone: _____

City: _____ State: ___ Zip: _____ Fax: _____

Contact Person: _____ E-mail: _____

CONTRACTOR INFORMATION

Contractor Name: _____

Mailing Address: _____ Phone: _____

City: _____ State: ___ Zip: _____ Fax: _____

CONSTRUCTION SITE INFORMATION

Facility Name: _____

Street Address: _____

City: _____ IL Zip: _____ County: _____

NPDES Storm Water General Permit Number: ILR10 _____

Latitude: _____ _____ _____ Longitude: _____ _____ _____ _____ _____ _____

(Deg) (Min) (Sec) (Deg) (Min) (Sec) Section Township Range

DATE PROJECT HAS BEEN COMPLETED AND STABILIZED: _____

NOTE: Coverage under this permit cannot be terminated without the completion date.

I certify under penalty of law that disturbed soils at the identified facility have been finally stabilized or that all storm water discharges associated with industrial activity from the identified facility that are authorized by an NPDES general permit have otherwise been eliminated. I understand that by submitting this notice of termination, that I am no longer authorized to discharge storm water associated with industrial activity by the general permit, and that discharging pollutants in storm water associated with industrial activity to Waters of the State is unlawful under the Environmental Protection Act and the Clean Water Act where the discharge is not authorized by an NPDES Permit.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

_____ _____

Owner Signature: Date:

Mail completed form to: Illinois Environmental Protection Agency
Division of Water Pollution Control
Attn: Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276

(Do not submit additional documentation unless requested)

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

IL 532 2102
WPC 621 Rev 6/10

Appendix E
Notice of Termination/Permit Modification Form

INSTRUCTIONS FOR COMPLETION OF CONSTRUCTION ACTIVITY NOTICE OF INTENT (NOI) FORM

Submit original, electronic or facsimile copies. Facsimile and/or electronic copies should be followed-up with submission of an original signature copy as soon as possible. Please write "copy" under the "For Office Use Only" box in the upper right hand corner of the first page.

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Permit Section at:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section
Post Office Box 19276
Springfield, Illinois 62794-9276
or call (217) 782-0610
FAX: (217) 782-9891

Or submit electronically to: epa.constilr10swppp@illinois.gov

Reports must be typed or printed legibly and signed.

Any facility that is not presently covered by the General NPDES Permit for Storm Water Discharges From Construction Site Activities is considered a new facility.

If this is a change in your facility information, renewal, etc., please fill in your permit number on the appropriate line, changes of information or permit renewal notifications do not require a fee.

NOTE: FACILITY LOCATION IS NOT NECESSARILY THE FACILITY MAILING ADDRESS, BUT SHOULD DESCRIBE WHERE THE FACILITY IS LOCATED.

Use the formats given in the following examples for correct form completion.

	Example	Format
Section	12	1 or 2 numerical digits
Township	12N	1 or 2 numerical digits followed by "N" or "S"
Range	12W	1 or 2 numerical digits followed by "E" or "W"

For the Name of Closest Receiving Waters, do not use terms such as ditch or channel. For unnamed tributaries, use terms which include at least a named main tributary such as "Unnamed Tributary to Sugar Creek to Sangamon River."

Submission of initial fee and an electronic submission of Storm Water Pollution Prevention Plan (SWPPP) for Initial Permit prior to the Notice of Intent being considered complete for coverage by the ILR10 General Permits. Please make checks payable to: Illinois EPA at the above address.

Construction sites with less than 5 acres of land disturbance - fee is $250.

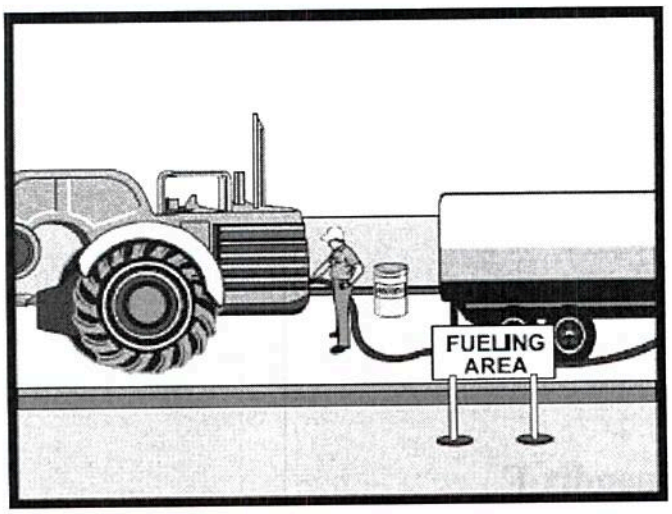
Construction sites with 5 or more acres of land disturbance - fee is $750.

SWPPP should be submitted electronically to: epa.constilr10swppp@illinois.gov When submitting electronically, use Project Name and City as indicated on NOI form.

Appendix F
Additional BMP Information Sheets

Vehicle and Equipment Fueling

BMP-1



Description and Purpose

Vehicle equipment fueling procedures and practices are designed to prevent fuel spills and leaks, and to eliminate contamination of storm water. This can be accomplished by fueling in designated areas only, enclosing or covering stored fuel, implementing spill controls, and training employees in proper fueling procedures.

Implementation

- Use designated fueling stations as much as possible.
- Discourage "topping-off" of fuel tanks.
- Absorbent spill cleanup materials and spill kits shall be available in fueling areas and on fueling trucks, and shall be disposed of properly after use.
- Drip pans or absorbent pads shall be used during vehicle and equipment fueling, unless the fueling is performed over an impermeable surface in a dedicated fueling area with containment.
- Use absorbent materials on small spills. Do not hose down or bury the spill. Remove the absorbent materials promptly and dispose of properly.
- Avoid mobile fueling of mobile construction equipment around the site; rather, transport the equipment to designated fueling areas. With the exception of tracked equipment such as bulldozers and large excavators, most vehicles should be able to travel to a designated area.
- The Contractor shall train employees in proper fueling and cleanup procedures.
- Fueling areas shall be identified in the SWPPP.

Vehicle and Equipment Fueling BMP-1

- Dedicated fueling areas shall be protected from storm water runon and shall be located at least 50 feet away from storm water conveyance systems. Fueling must be performed on level-grade areas.

- Protect fueling areas with berms and dikes to prevent runon and runoff and to contain spills.

- Nozzles used in vehicle and equipment fueling shall be equipped with an automatic shutoff to control drips. Fueling operations shall not be left unattended.

Inspection and Maintenance

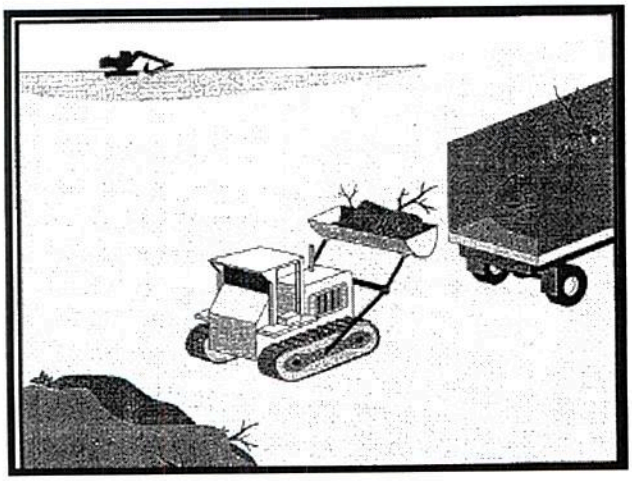
- Vehicles and equipment shall be inspected each day of use for leaks. Leaks shall be repaired immediately.

- Immediately clean up spills and properly dispose of contaminated soil and cleanup materials.

Data Source: California Storm Water BMP Handbook for Construction

Solid Waste Management

BMP-3



Description and Purpose

Solid waste management procedures and practices are designed to prevent the discharge of pollutants to surface waters from solid wastes by providing designated waste collection areas and containers, arranging for regular disposal, and training employees.

Suitable Applications

This BMP is suitable for construction sites where the following wastes are generated or stored:

- Solid waste generated from demolition of existing structures (rubble) and building construction.
- Packaging materials including wood, paper, and plastic.
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes.
- Construction wastes including brick, mortar, lumber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, styrofoam, and plastics.

Implementation

The following steps will help keep a clean site and reduce storm water pollution:

- Select designated waste collection areas on site.
- Inform trash-hauling contractors that you will accept only watertight dumpsters for on-site use. Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Locate containers in secondary containment.
- Collect site trash daily, especially during rainy and windy conditions.

- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash-hauling contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.
- The Contractor shall oversee and enforce proper solid waste management procedures and practices.
- Trash receptacles shall be provided in the Contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.

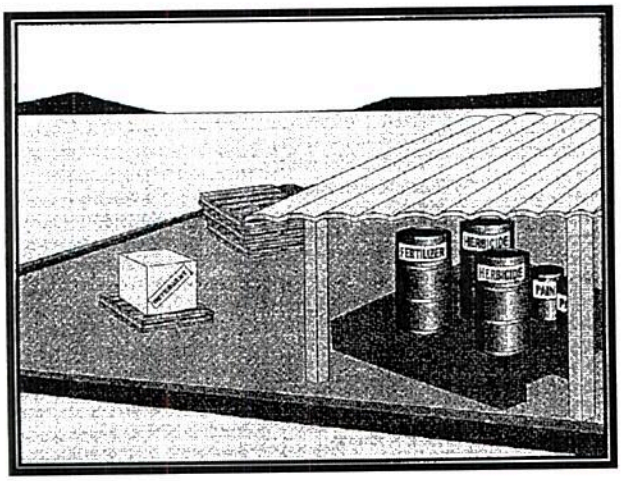
Inspection and Maintenance

- Inspect solid waste collection areas regularly.
- Arrange for regular waste collection.

Data Source: California Storm Water BMP Handbook for Construction

Material Use

BMP-4



Description and Purpose

Prevent the discharge of pollutants to surface waters from material use by using alternative products, minimizing hazardous material use on site, and training employees.

Suitable Applications

This BMP is suitable for use at all construction projects. These procedures apply when the following materials are used or prepared on site:

- Pesticides and herbicides.
- Fertilizers.
- Detergents.
- Petroleum products such as fuel, oil, and grease.
- Asphalt and other concrete components
- Other hazardous chemicals such as acids, lime, glues, adhesives, paints, solvents, and curing compounds.
- Concrete compounds.
- Other materials that may be detrimental if released to the environment.

Implementation

The following steps should be taken to minimize risk:

- Minimize use of hazardous materials on site.

- Follow manufacturer instructions regarding uses, protective equipment, ventilation, flammability, and mixing of chemicals.
- Train personnel who use pesticides.
- Do not over-apply fertilizers, herbicides, and pesticides. Prepare only the amount needed and follow the recommended usage instructions. Apply surface dressings in several smaller applications, as opposed to one large application, to allow time for infiltration and to avoid excess material being carried off site by runoff. Do not apply these chemicals just before it rains.
- Supply Material Safety Data Sheets (MSDS) for all materials.
- Do not remove the original product label; it contains important safety and disposal information. Use the entire product before disposing of the container.
- Keep an ample supply of spill clean-up material near use areas. Train employees in spill clean-up procedures.
- Avoid exposing applied materials to rainfall and runoff unless sufficient time has been allowed for them to dry.

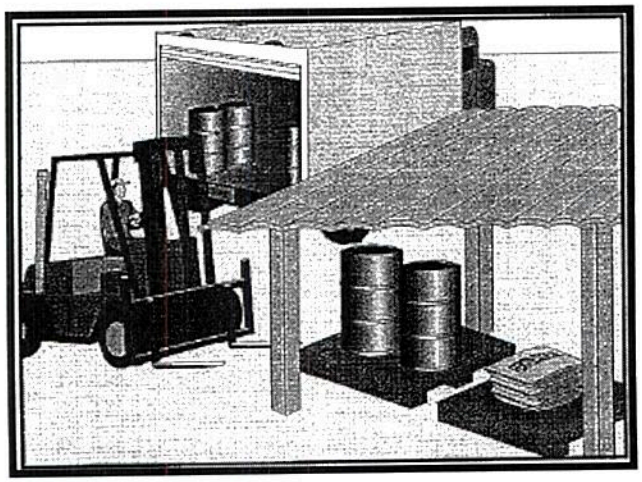
Inspection and Maintenance

- Inspect and verify that BMPs are in place prior to the commencement of activities.
- Spot check employees throughout the job to ensure that appropriate practices are being employed.

Data Source: California Storm Water BMP Handbook for Construction

Material Delivery and Storage

BMP-5



Description and Purpose

Prevent the discharge of pollutants from material delivery and storage to surface waters by minimizing the storage of hazardous materials on site, storing materials in a designated area, installing secondary containment, conducting regular inspections, and training employees.

Suitable Applications

These procedures are suitable for use at all construction sites with delivery and storage of the following materials:

- Soil stabilizers and binders.
- Pesticides and herbicides.
- Fertilizers.
- Detergents.
- Petroleum products such as fuel, oil, and grease.
- Asphalt and concrete components.
- Hazardous chemicals such as acids, lime, glues, adhesives, paints, solvents, and curing compounds.
- Concrete compounds.
- Other materials that may be detrimental if released to the environment.

Material Delivery and Storage BMP-5

Implementation

The following steps should be taken to minimize risk:

- Temporary storage areas shall be located in a secure location with restricted access to prevent vandalism.
- Material Safety Data Sheets (MSDS) shall be supplied for all materials stored.
- Construction site areas shall be designated for material delivery and storage.
- Storage sheds shall meet building and fire code requirements.
- Storage of reactive, ignitable, or flammable liquids must comply with the fire codes of the project area. Contact the local Fire Marshal to review site materials, quantities, and proposed storage area to determine specific requirements.
- An up-to-date inventory of materials delivered and stored on site shall be kept.
- Hazardous materials storage on site shall be minimized.
- Hazardous materials shall be handled as infrequently as possible.
- Do not store chemicals, drums, or bagged materials directly on the ground. Place these items on a pallet and in secondary containment.
- Chemicals shall be kept in their original labeled containers.
- Employees trained in emergency spill clean-up procedures shall be present when dangerous materials or liquid chemicals are unloaded.

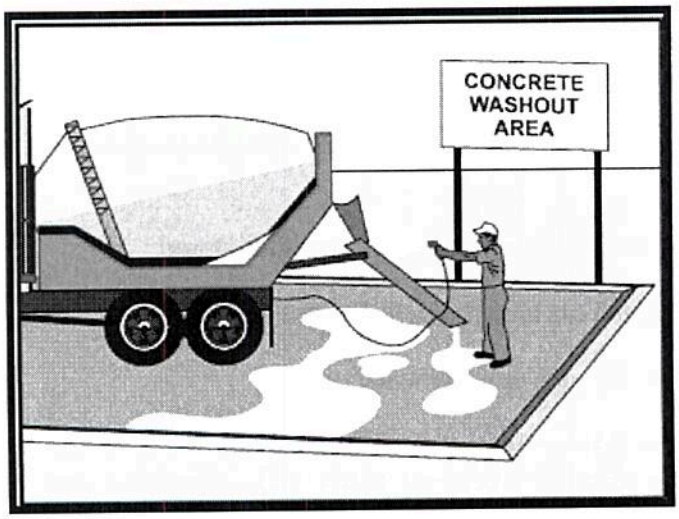
Inspection and Maintenance

- Inspect and verify that BMPs are in place prior to the commencement of associated activities.
- Keep an ample supply of spill clean-up materials near the storage area. Spill clean-up materials shall be appropriate to the materials being stored.
- Keep storage areas clean and well organized.
- Repair or replace perimeter controls, containment structures, covers, and liners as needed to maintain proper function.

Data Source: California Storm Water BMP Handbook for Construction

Concrete Waste Management

BMP-7



Description and Purpose

Prevent the discharge of pollutants to surface waters from concrete waste by performing washout in a designated area.

Suitable Applications

Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, grooving, and concrete demolition.
- Concrete trucks and other concrete-coated equipment are washed on site.
- Mortar-mixing stations exist.

Implementation

The following steps will help reduce pollution from concrete washes:

- Discuss the concrete management techniques described in this BMP (such as handling of concrete waste and washout) with the ready-mix concrete supplier before any deliveries are made.
- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Avoid mixing excess amounts of fresh concrete.

- Perform washout of concrete trucks in designated areas only.
- Do not allow excess concrete to be dumped on site, except in designated areas.
- Wash out wastes into a temporary basin where the concrete can set, be broken up, and then disposed of properly.

Concrete Slurry Wastes

- Concrete waste shall not be allowed to enter storm water conveyance systems.
- Concrete waste shall be collected and disposed of or placed in a temporary concrete washout facility.
- A sign shall be installed adjacent to each temporary concrete washout facility to inform concrete equipment operators to utilize the proper facilities.
- Below-grade concrete washout facilities are typical. Above-grade facilities are used if excavation is not practical.
- Saw-cut PCC slurry shall not be allowed to enter storm water conveyance systems. Residue from grinding operations shall be picked up by means of a vacuum attachment to the grinding machine. Saw cutting residue shall not be allowed to flow across the pavement and shall be left on the surface of the pavement.
- Slurry residue shall be vacuumed and disposed of in a washout facility.

On-site Temporary Concrete Washout Facility, Transit Truck Washout Procedures

- Temporary concrete washout facilities shall be located a minimum of 50 feet from storm water conveyance systems. Each facility shall be located away from construction traffic or access areas to prevent disturbance or tracking.
- A sign shall be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
- Temporary concrete washout facilities shall be constructed above grade or below grade at the option of the contractor. Temporary concrete washout facilities shall be constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations.
- Any discharge from a washout facility shall be clear water with a neutral Ph level.
- Washout of concrete trucks shall be performed in designated areas only.
- Only concrete from mixer truck chutes shall be washed into concrete washout.
- Concrete washout from concrete pumper bins can be washed into concrete pumper trucks and discharged into a designated washout area or properly disposed of off site.

- Once concrete wastes are washed into the designated area and allowed to harden, the concrete should be broken up, removed, and disposed of.
- Temporary Concrete Washout Facility (Type Above Grade)
  - Temporary concrete washout facility (type above grade) shall be constructed as shown on the details at the end of this BMP, with a recommended minimum length and minimum width of 10 feet, but with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations.
  - Plastic lining material shall be a minimum of 10 mil polyethylene sheeting and shall be free of holes, tears, or other defects that compromise the impermeability of the material.
- Temporary Concrete Washout Facility (Type Below Grade)
  - Temporary concrete washout facilities (type below grade) shall be constructed as shown on the details at the end of this BMP, with a recommended minimum length and minimum width of 10 feet. The quantity and volume shall be sufficient to contain all liquid and concrete waste generated by washout operations.
  - Plastic lining material shall be a minimum of 10 mil polyethylene sheeting and shall be free of holes, tears, or other defects that compromise the impermeability of the material.

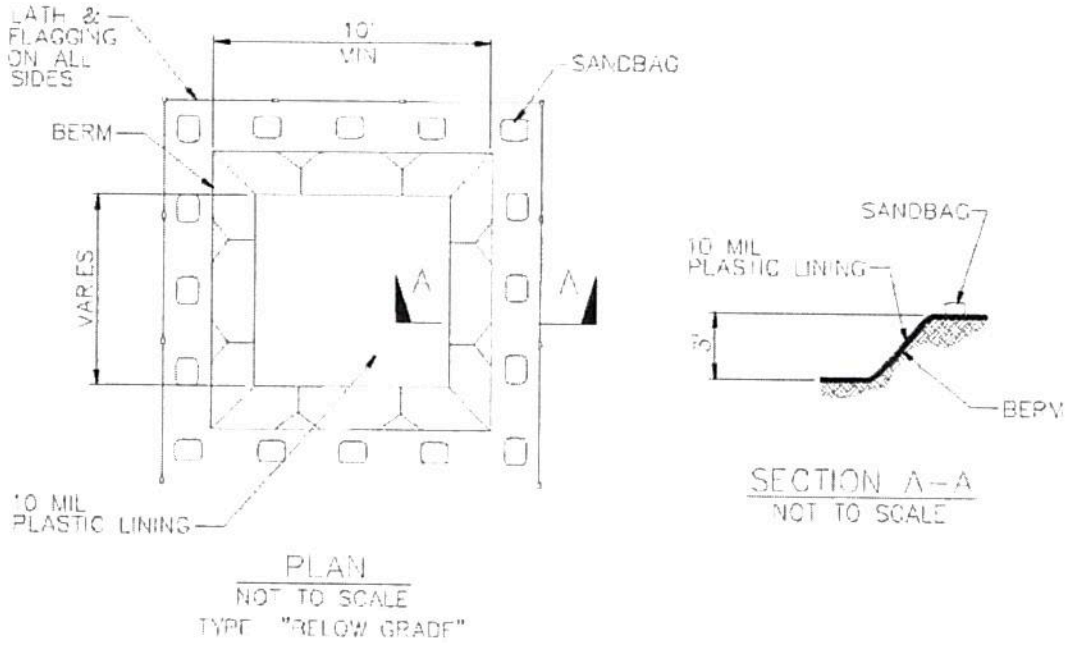
Removal of Temporary Concrete Washout Facilities

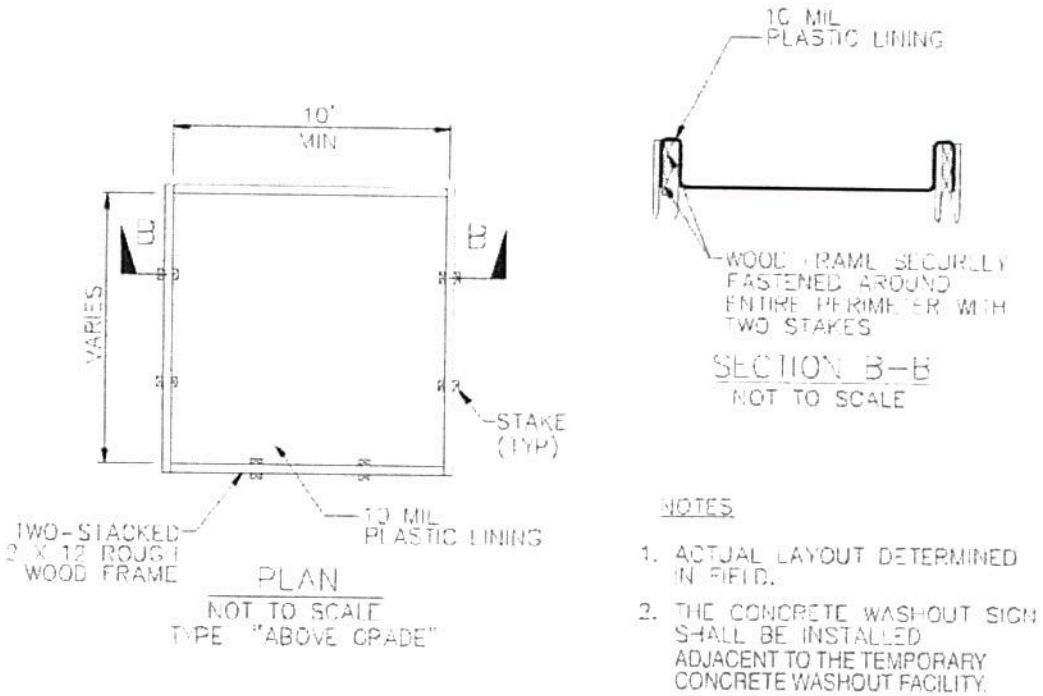
- When temporary concrete washout facilities are no longer required for the work, the hardened concrete shall be removed and disposed of. Materials used to construct temporary concrete washout facilities shall be removed from the site of the work and disposed of.
- Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities shall be backfilled and repaired.

Inspection and Maintenance

- Inspect and verify that the BMPs are in place prior to the commencement of activities.
- Temporary concrete washout facilities shall be maintained to provide adequate holding capacity with a minimum freeboard of 6 inches for above-grade facilities and 12 inches for below-grade facilities. Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and returning the facilities to a functional condition. Hardened concrete materials shall be removed and disposed of.
- Washout facilities shall be cleaned, or new facilities shall be constructed and ready for use once the washout is 50% full.

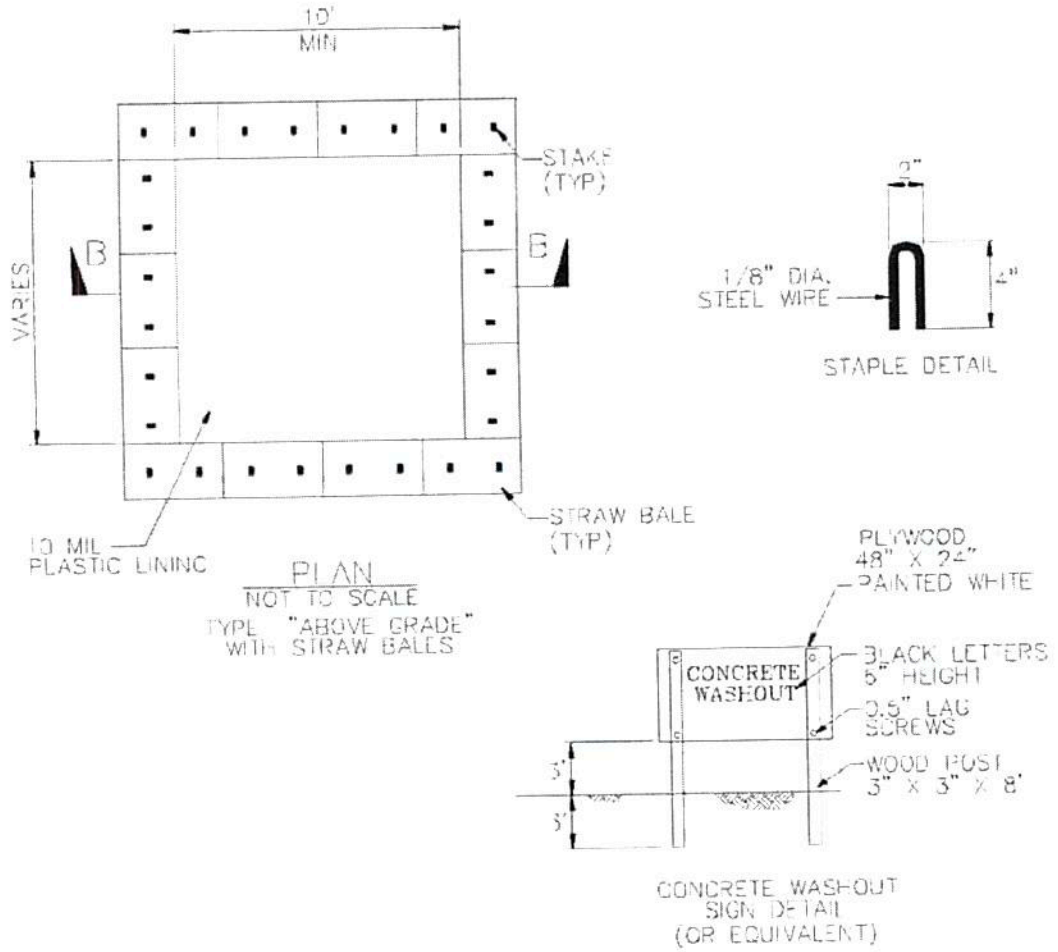
Data Source: California Storm Water BMP Handbook for Construction

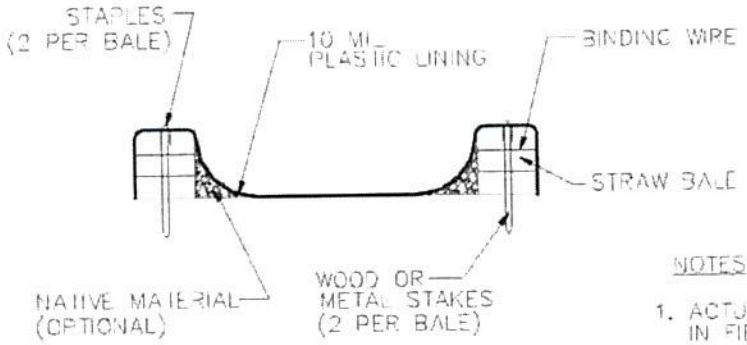




NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED ADJACENT TO THE TEMPORARY CONCRETE WASHOUT FACILITY.





NOTES

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED ADJACENT TO THE TEMPORARY CONCRETE WASHOUT FACILITY.

Appendix G
Inspection Reports

Stormwater Construction Site Inspection Report

To be completed every 7 days and within 24 hours of a rainfall event of 0.5 inches or more

General Information			
Project Name			
NPDES Tracking No.		**Location**	
Date of Inspection		**Start/End Time**	
Inspector's Name(s)			
Inspector's Title(s)			
Inspector's Contact Information			
Inspector's Qualifications			
Describe present phase of construction			
Type of Inspection: ❑ Regular ❑ Pre-storm event ❑ During storm event ❑ Post-storm event			
Weather Information			
Has there been a storm event since the last inspection? ❑Yes ❑No **If yes, provide:** Storm Start Date & Time: Storm Duration (hrs): Approximate Amount of Precipitation (in):			
Weather at time of this inspection? ❑ Clear ❑Cloudy ❑ Rain ❑ Sleet ❑ Fog ❑ Snowing ❑ High Winds ❑ Other: Temperature:			
Have any discharges occurred since the last inspection? ❑Yes ❑No **If yes, describe:**			
Are there any discharges at the time of inspection? ❑Yes ❑No **If yes, describe:**			

Site-specific BMPs

- *Number the structural and non-structural BMPs identified in your SWPPP on your site map and list them below (add as many BMPs as necessary). Carry a copy of the numbered site map with you during your inspections. This list will ensure that you are inspecting all required BMPs at your site.*
- *Describe corrective actions initiated, date completed, and note the person that completed the work in the Corrective Action Log.*

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
1	Stabilized Construction Exits	❑Yes ❑No	❑Yes ❑No	
2	Silt Fence (repairs required within 24 hrs)	❑Yes ❑No	❑Yes ❑No	
3	Combined Staging and Material Storage Area	❑Yes ❑No	❑Yes ❑No	
4	Dumpster and Sanitary Facilities	❑Yes ❑No	❑Yes ❑No	
5	Vegetated Swale	❑Yes ❑No	❑Yes ❑No	

	BMP	BMP Installed?	BMP Maintenance Required?	Corrective Action Needed and Notes
6	Sediment Traps/Basins	❑Yes ❑No	❑Yes ❑No	
7	Topsoil Stockpile	❑Yes ❑No	❑Yes ❑No	
8	Storm Drain Inlets	❑Yes ❑No	❑Yes ❑No	
9	Concrete Washout Area	❑Yes ❑No	❑Yes ❑No	
10		❑Yes ❑No	❑Yes ❑No	
11		❑Yes ❑No	❑Yes ❑No	
12		❑Yes ❑No	❑Yes ❑No	
13		❑Yes ❑No	❑Yes ❑No	
14		❑Yes ❑No	❑Yes ❑No	
15		❑Yes ❑No	❑Yes ❑No	
16		❑Yes ❑No	❑Yes ❑No	
17		❑Yes ❑No	❑Yes ❑No	
18		❑Yes ❑No	❑Yes ❑No	
19		❑Yes ❑No	❑Yes ❑No	
20		❑Yes ❑No	❑Yes ❑No	

Overall Site Issues

Below are some general site issues that should be assessed during inspections. Customize this list as needed for conditions at your site.

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
1	Are all slopes and disturbed areas not actively being worked properly stabilized?	❑Yes ❑No	❑Yes ❑No	
2	Are natural resource areas (e.g., streams, wetlands, mature trees, etc.) protected with barriers or similar BMPs?	❑Yes ❑No	❑Yes ❑No	
3	Are perimeter controls and sediment barriers adequately installed (keyed into substrate) and maintained?	❑Yes ❑No	❑Yes ❑No	

	BMP/activity	Implemented?	Maintenance Required?	Corrective Action Needed and Notes
4	Are discharge points and receiving waters free of any sediment deposits?	❑Yes ❑No	❑Yes ❑No	
5	Are storm drain inlets properly protected?	❑Yes ❑No	❑Yes ❑No	
6	Is the construction exit preventing sediment from being tracked into the street?	❑Yes ❑No	❑Yes ❑No	
7	Is trash/litter from work areas collected and placed in covered dumpsters?	❑Yes ❑No	❑Yes ❑No	
8	Are washout facilities (e.g., paint, stucco, concrete) available, clearly marked, and maintained?	❑Yes ❑No	❑Yes ❑No	
9	Are vehicle and equipment fueling, cleaning, and maintenance areas free of spills, leaks, or any other deleterious material?	❑Yes ❑No	❑Yes ❑No	
10	Are materials that are potential stormwater contaminants stored inside or under cover?	❑Yes ❑No	❑Yes ❑No	
11	Are non-stormwater discharges (e.g., wash water, dewatering) properly controlled?	❑Yes ❑No	❑Yes ❑No	
12	(Other)	❑Yes ❑No	❑Yes ❑No	

Non-Compliance

Describe any incidents of non-compliance not described above:

CERTIFICATION STATEMENT

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Print name and title: _____

Signature: _____ **Date:** _____

Appendix H
Corrective Action Log

Building 94 General Construction
Cordova, County of Rock Island, Illinois

CORRECTIVE ACTION LOG

Inspection Date	Inspector Name(s)	Description of BMP Deficiency	Corrective Action Needed (including planned date/responsible person)	Date Action Taken/ Responsible Person

Appendix I
SWPPP Amendment Log

Building 94 General Construction
Cordova, County of Rock Island, Illinois

SWPPP AMENDMENT LOG

Amendment No.	Description of the Amendment	Date of the Amendment	Amendment Prepared by (Name[s] and Title)

Appendix J
Subcontractor Certifications/Agreements

Building 94 General Construction
Cordova, County of Rock Island, Illinois

CONTRACTOR/SUBCONTRACTOR CERTIFICATION

Project Number: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Storm Water Pollution Prevention Plan (SWPPP) for any work that you perform on site. Failure to comply with the SWPPP may result in termination of the contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact storm water must be identified and sign the following certification statement:

I certify under the penalty of law that I understand the terms and conditions of the general National Pollution Discharge Elimination System (NPDES) permit (ILR10) that authorizes the storm water discharges associated with industrial activity from the construction site identified as part of this certification.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone #: _____

Type of construction service to be provided: _____

_____

Signature: _____

Title: _____

Date: _____

Appendix K
Grading and Stabilization Activities Log

Building 94 General Construction
Cordova, County of Rock Island, Illinois

GRADING AND STABILIZATION ACTIVITIES LOG

Date Grading Activity Initiated	Description of Grading Activity	Date Grading Activity Ceased (Indicate Temporary or Permanent)	Date When Stabilization Measures are Initiated	Description of Stabilization Measure and Location

Appendix L
Training Log and/or Training Certificates

Building 94 General Construction
Cordova, County of Rock Island, Illinois

STORM WATER POLLUTION PREVENTION TRAINING LOG

Instructor's Name(s): _____

Instructor's Title(s): _____

Course Location: _____ Date: _____

Course Length (hours): _____

Storm Water Training Topic: (**check as appropriate**)

- ☐ Erosion Control BMPs
- ☐ Sediment Control BMPs
- ☐ Non-Storm Water BMPs
- ☐ Emergency Procedures
- ☐ Good Housekeeping BMPs

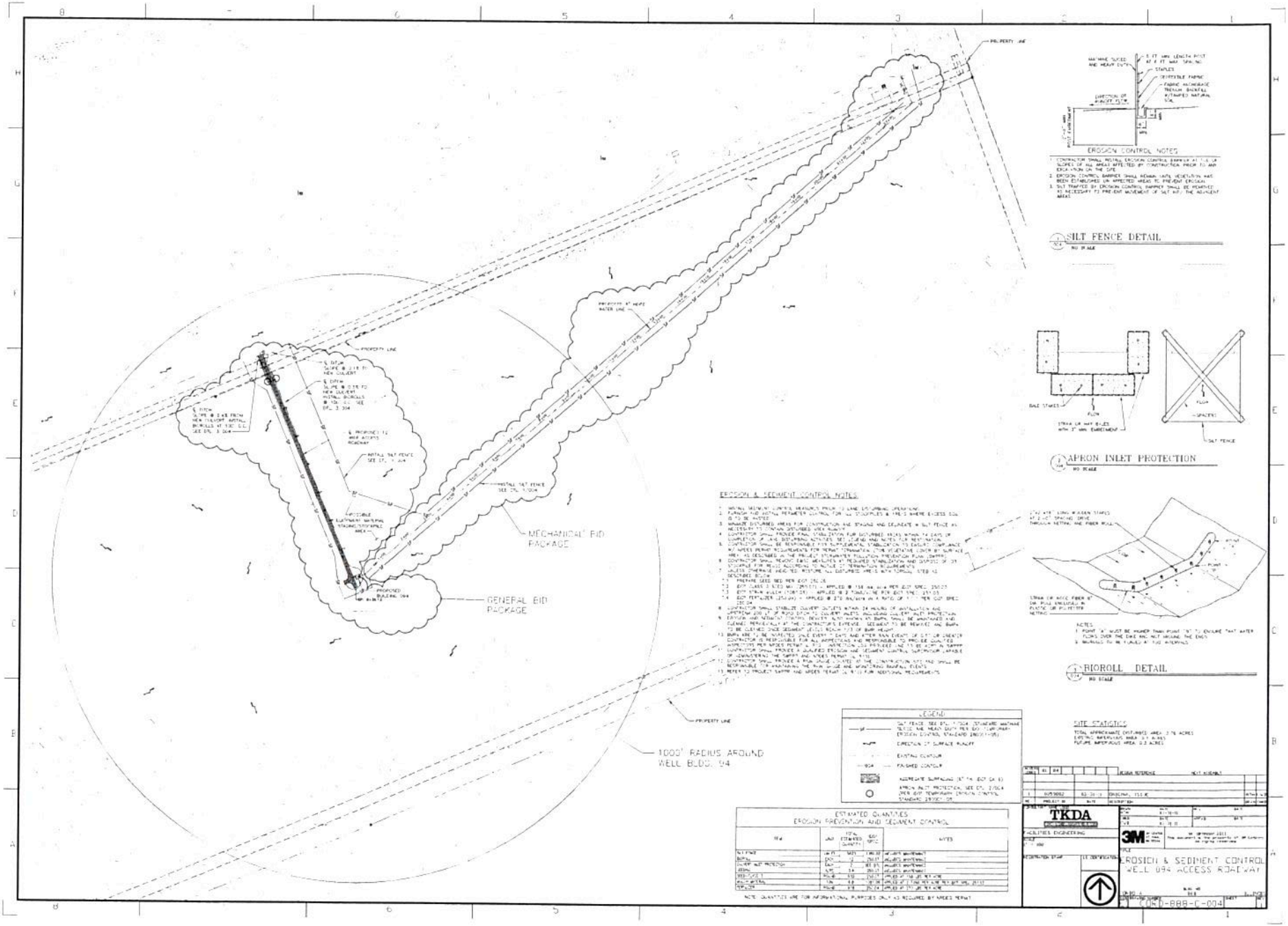
Specific Training Objective: _____

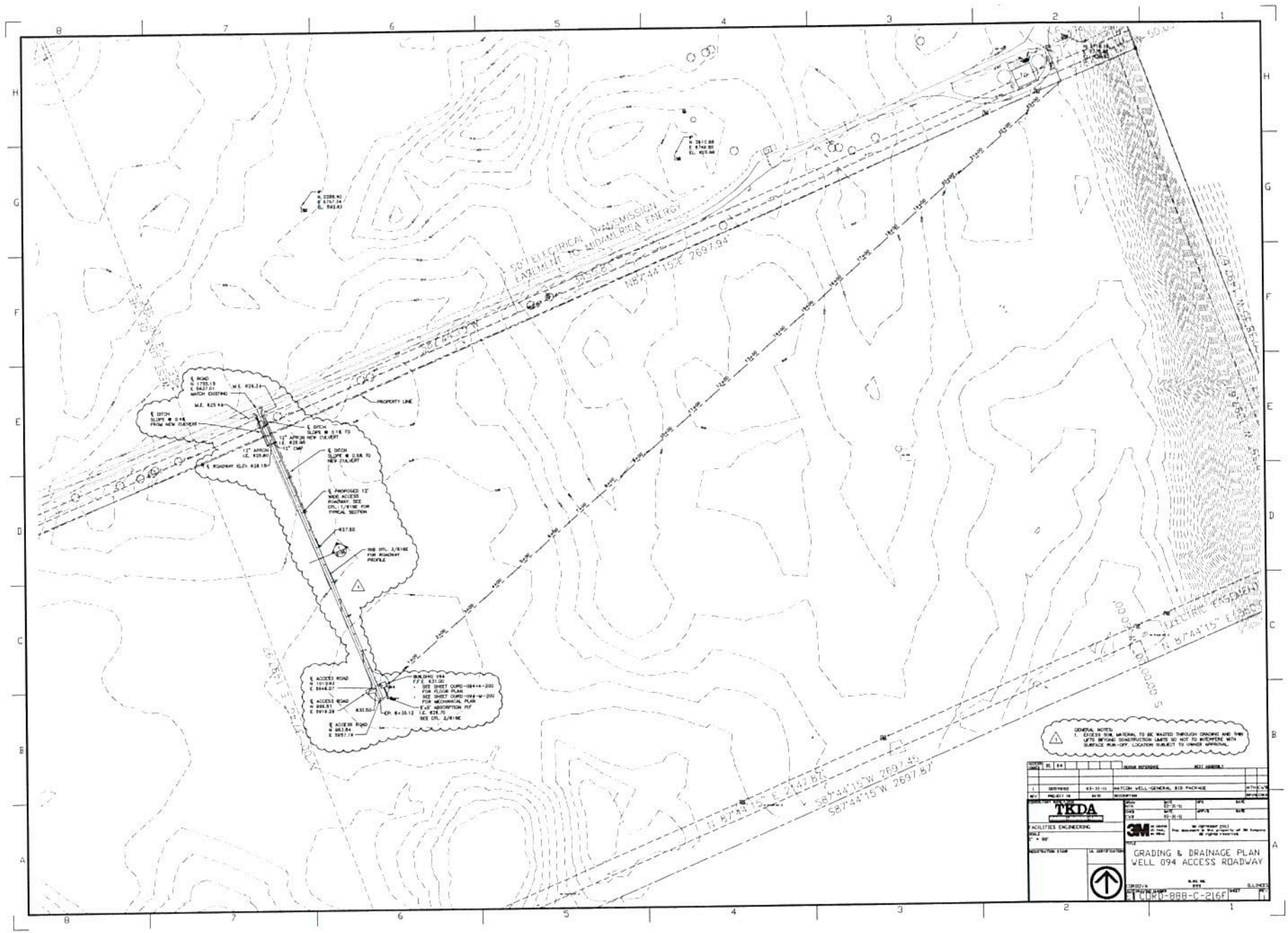
_____

Attendee Roster: (**attach additional pages as necessary**)

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Appendix M
Erosion Prevention and Sediment Control BMP Quantities


EROSION CONTROL NOTES
SILT FENCE DETAIL
APRON INLET PROTECTION
BIOROLL DETAIL
EROSION & SEDIMENT CONTROL NOTES
MECHANICAL BID PACKAGE
GENERAL BID PACKAGE
1000' RADIUS AROUND WELL BLDG. 94
LEGEND
SITE STATISTICS
ESTIMATED QUANTITIES
EROSION PREVENTION AND SEDIMENT CONTROL
TKDA
EROSION & SEDIMENT CONTROL
WELL 094 ACCESS ROADWAY
CWD-888-C-004

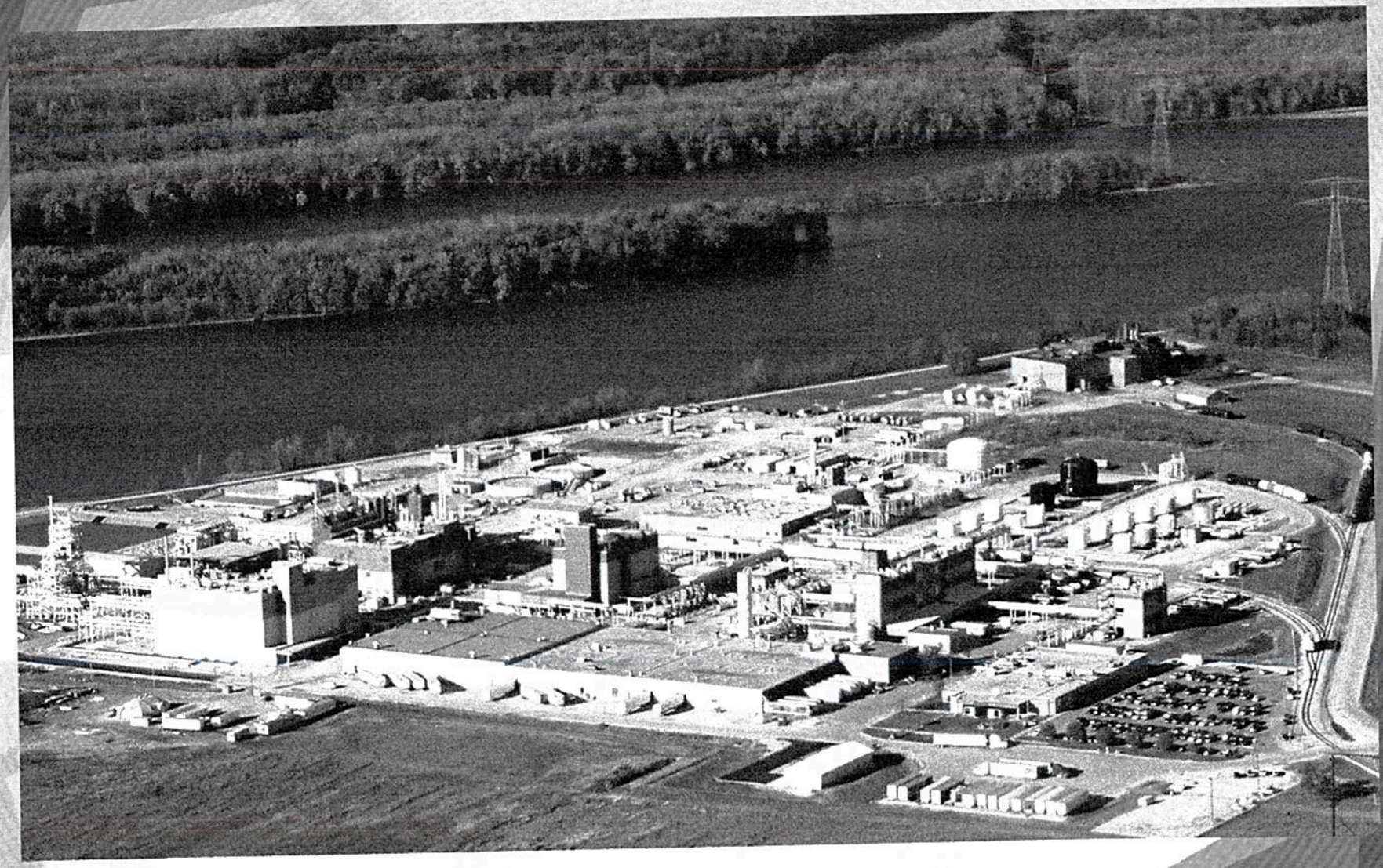

GENERAL NOTES:
1. EXCESS SOIL MATERIAL TO BE WASTED THROUGH GRADING AND THEN LEFT BEYOND CONSTRUCTION LIMITS SO NOT TO INTERFERE WITH SURFACE RUN-OFF. LOCATION SUBJECT TO OWNER APPROVAL.
TKDA
FACILITIES ENGINEERING
3M
GRADING & DRAINAGE PLAN
WELL 094 ACCESS ROADWAY
CORD-888-C-216F

ESTIMATED QUANTITIES
EROSION PREVENTION AND SEDIMENT CONTROL

ITEM	UNIT	TOTAL ESTIMATED QUANTITY	IDOT SPEC.	NOTES
SILT FENCE	LIN FT	5620	1080.02	INCLUDES MAINTENANCE
BIOROLL	EACH	12	250.07	INCLUDES MAINTENANCE
CULVERT INLET PROTECTION	EACH	2	1080.15h	
SEEDING	ACRE	4.25	250.07	INCLUDES MAINTENANCE
SEED-CLASS 3	POUND	663	250.07	APPLIED AT 156 LBS PER ACRE
MULCH MATERIAL	TON	8.5	1081.06	APPLIED AT 2 TONS PER ACRE PER IDOT SPEC 251.03
FERTILIZER	POUND	1148	250.04	APPLIED AT 270 LBS PER ACRE

NOTE: QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY AS REQUIRED BY NPDES PERMIT.

3M Cordova



Cordova – Stormwater SPCC Training

Training Outline

- Overview of the law
- Purpose of the Storm Water Pollution Prevention Program (SWPPP)
- Best Management Practices
- Spill Control and Countermeasure Plan (SPCC)
- Quiz

Overview of the Law

- Storm water protection efforts began when the Federal Government passed the Clean Water Act. The objectives are to restore and maintain the chemical, physical and biological integrity of the nation's water.
- The Clean Water Act goals include:
  - The achievement of a level of water quality which provides for the protection of fish, shellfish and wildlife.
  - The continued use of waters for recreational use.
  - And for the elimination of discharges of pollutants into surface water.

Stormwater

Neither rain, nor sleet, nor snow…not just the motto of the USPS…

Storm water = *discharges generated by precipitation and runoff from land, impervious surfaces, building rooftops, and other surfaces.*

Stormwater Pollution

- Major contributor to river and lake pollution.
- Agricultural, industrial, and urban areas are major sources.
- Impossible to treat, so emphasis is on pollution prevention.
- Everyone is responsible for doing their part.

Allowable Non-Storm Discharges

- The following are allowable non-storm discharges if there are no contaminants present.
  - Fire Hydrant/Potable Water Line Flushing
  - Landscape Irrigation
  - Foundation Drains
  - Air Conditioning Condensation
  - Pavement or Building Washwater

What is a SWPPP?

- Plan to identify, reduce, eliminate, and/or prevent the discharge of storm water pollutants.
- Plan to prevent violations of surface water quality, ground water quality, or sediment management standards.
- Plan to prevent impacts to receiving water by controlling peak rates and volumes of runoff.

Cordova SWPPP

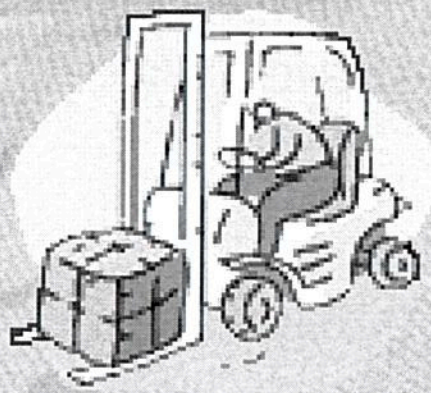
- 3M Cordova Storm Water Containment Draining is covered in SOP 1170.
- The detailed Storm Water Pollution Prevention Plan (SWPPP) is stored with the Storm Water Coordinator.
- The Plan Covers
  - Inspections
  - Reports
  - Training
  - Corrective actions

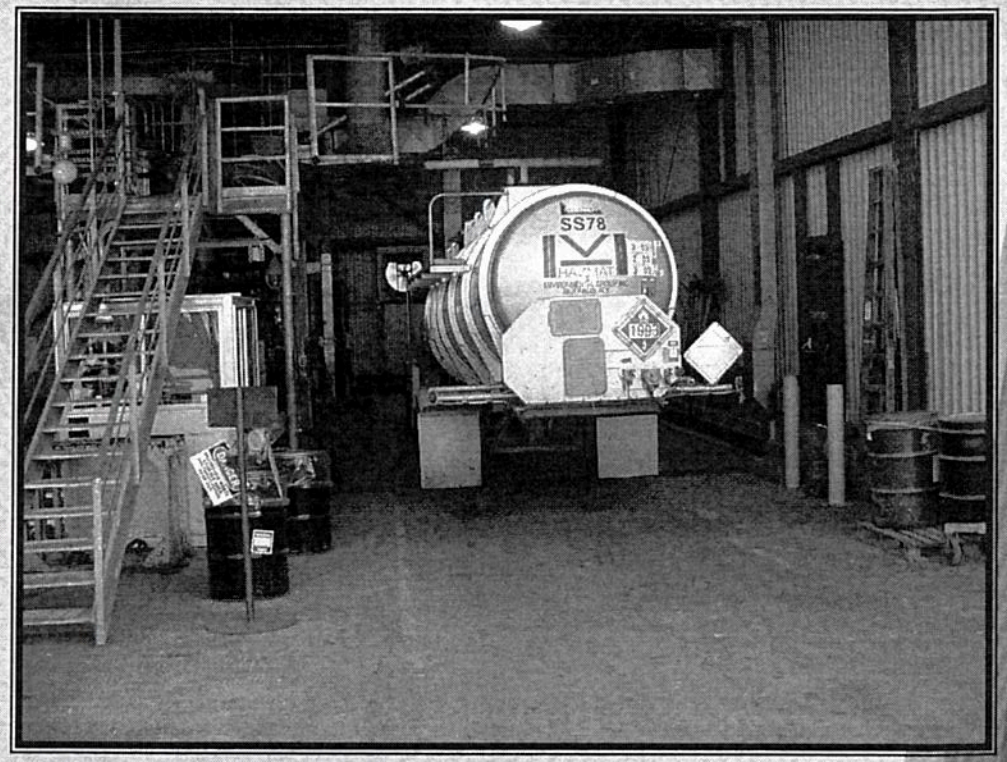
Potential Storm water Pollution Prevention

- Material Handling Procedures where there is a potential of stormwater contamination:
  - Material Transfer Operations
  - Material Storage
  - Hazardous Waste Storage
  - Material Disposal Operations

Material Transfers Operations

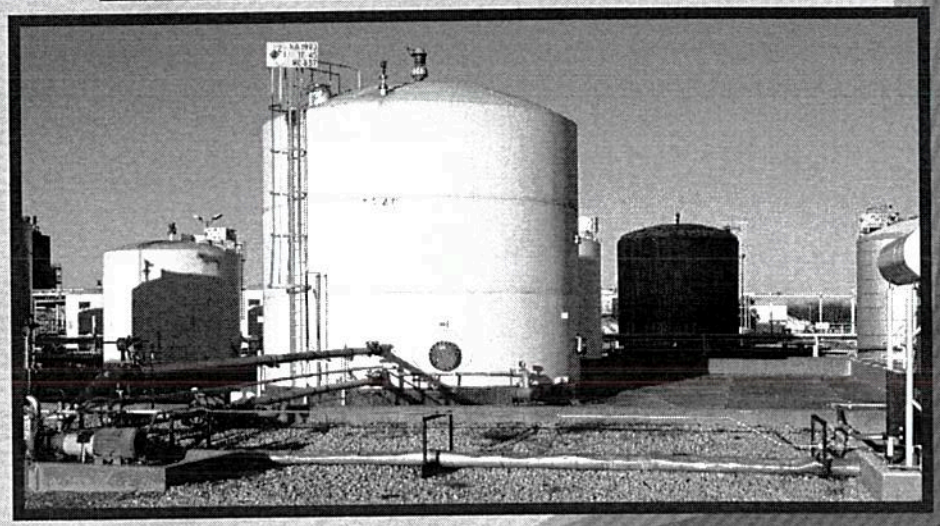
- Trailer Unloading
  - Tanker/bulk loading and unloading
- Forklift movement





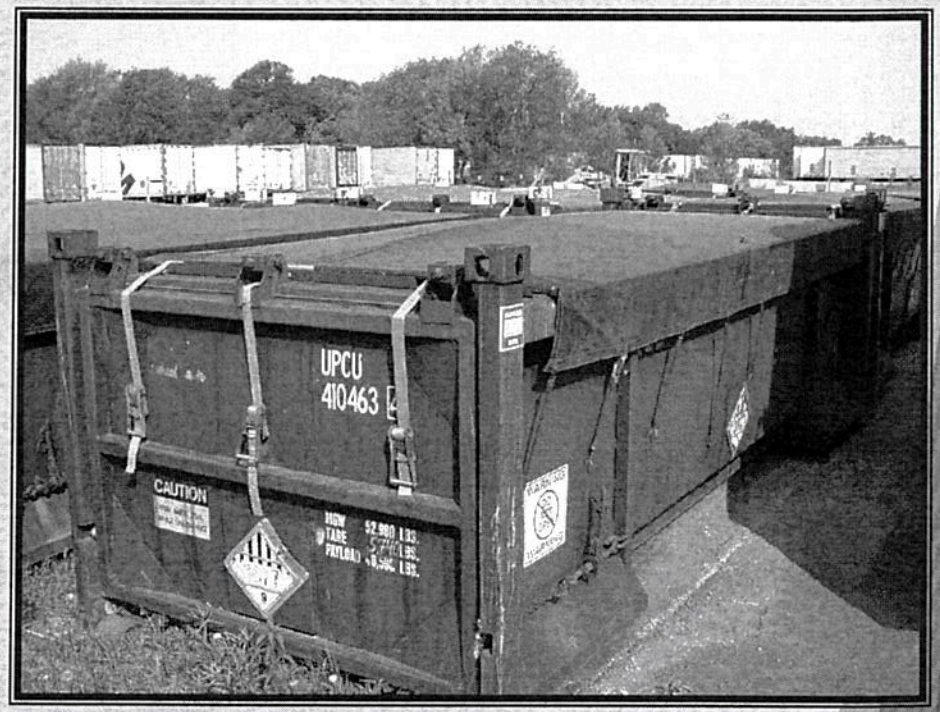
Material Storage

- Trailer Storage
- Tank Storage
- Roll-off Storage
- Maintenance Material



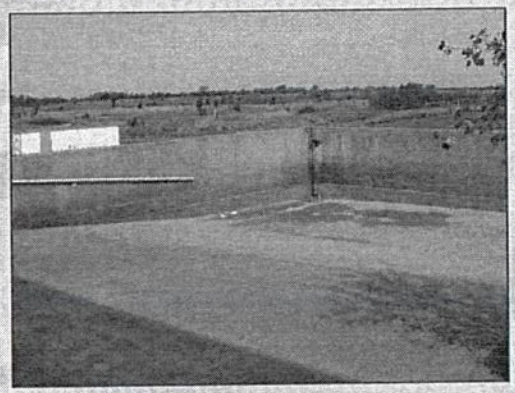
Materials Disposal

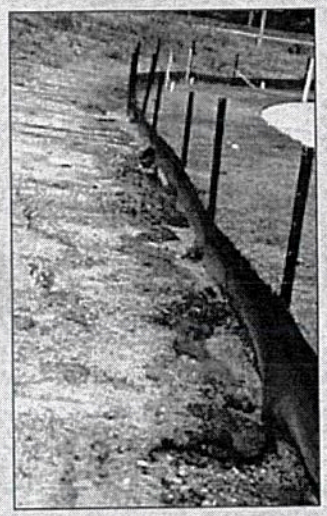
- Dumpsters/Roll-offs
- Wastewater Sludge
- Scrap Metals Bin

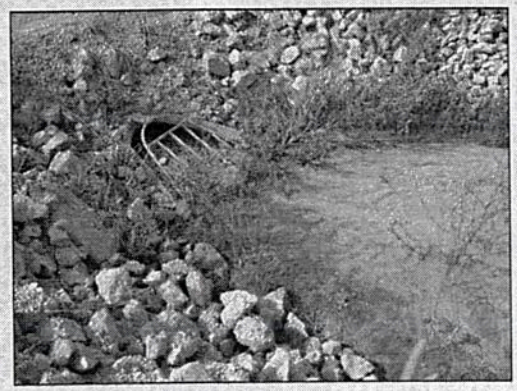


Maintenance

- Chemical Applications to lawn and grounds.







Non-Stormwater Discharges

Are Prohibited

- Process water
- Cooling water
- Steam Condensate
- Outside cleaning

Prevention Methods

- Close containment valves
- Inspect for contamination before opening containment valves
- Liquids stored in containment pads or lined trailers
- Prevent contact of stormwater with chemicals, maintenance supplies, etc.
- Clean up spills promptly
- Follow SOP's

Best Management Practices (BMPs)

- BMPs are used to reduce the risk of contaminants entering storm water runoff.
- Administrative Procedures
  - Environmental Audits
  - Spill Prevention Control and Countermeasure Plan
  - Material Inventory
  - Internal Reporting
  - Recordkeeping
  - Employee training

Best Management Practices (BMPs)

- Nonstructural Controls
  - Visual Inspections
  - Preventive Maintenance
  - Fertilizer and Pesticide Management
  - Good Housekeeping
  - Labeling
  - Litter Control
  - Material Handling
  - Mitigation Cleanup
  - Recycling
  - Vehicle Positioning

Best Management Practices (BMPs)

- Structural Controls
  - Building Structure
  - Secondary Containment
  - Flow Diversion
  - Detention Ponds
  - Vegetation and drainage ways
  - Erosion Control
  - On Site Wastewater Treatment
  - Drainage System Improvement
  - Ultimate Disposal

Spill Control and Countermeasure (SPCC)

- Plan to prevent oil spills (above and underground) that could reach navigable waters:
  - Ensure containment
  - Ensure conuntermeasures to contain, clean up, and mitigate the effects of an oil spill
- What is the definition of oil?
  - Petroleum oils such as gasoline, diesel, heating oil
  - Non-petroleum oils such as animal or vegetable, synthetic, and mineral oils

Spill Control and Countermeasure (SPCC)

- Applies to facilities that have a total storage capacity of greater than 1,320 gallons above or 42,000 gallons underground.
  - Any container over 55 gallons
- Includes operational use equipment: electrical transformers, certain hydraulic or manufacturing equipment
  - Cranes, hydraulic lifts, grease traps, oil/water separators;
  - general rule of thumb: containers that fuel actual motive power of equipment

Cordova SPCC Plan

These documents and databases, that are stored in MDI, the SPCC incorporates by reference at the Cordova facility.

- Tank Trailer Loading (EC30002W) Employee Certification Manual
- Warehouse Tank Trailer Unloading (EC06002W) Employee Certification Manual
- Warehouse Railcar Unloading (EC06008W) Employee Certification Manual
- Unloading Railcars: SOP 4036
- General spill response procedures: "Red Book" SOP's, 0600 through 0610
- Incident Reporting: SOP 0030
- Disposal of spill cleanup residue: Corporate database WSP and local database WasteStream
- Rainwater inspection and handling: SOP 1170
- Personnel training: SOP 3002
- SPCC Plan Covers
  - Recognition of spill situations
  - Notification
  - Spill containment
  - Spill clean-up
  - Methods to prevent spills

Be Aware of Your Surroundings

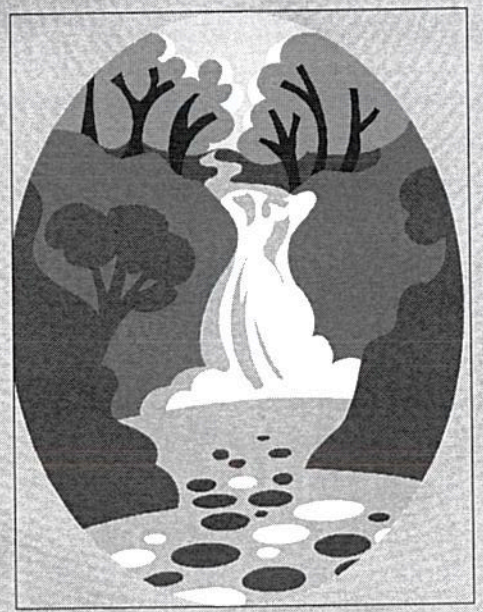
When YOU see a storm water pollution hazard, report it!

- **Area Supervisor**
- **Building EHS&R Representative**
- **Site Environmental Coordinator**
- **1911 for emergencies**

YOU can help assure a clean and healthy environment.

SWPPP / SPCC

You should now have an understanding of Cordova Storm Water Pollution Prevention Program and Spill Prevention Control and Countermeasure Plan. Take a few minutes to answer the questions on the following quiz.



Cordova - Stormwater SPCC Training

Quiz - 11 questions

Last Modified: Nov 25, 2015 at 10:33 AM

PROPERTIES

On passing, 'Finish' button:	Goes to Next Slide
On failing, 'Finish' button:	Goes to Slide
Allow user to leave quiz:	At any time
User may view slides after quiz:	At any time
Show in menu as:	Multiple items

Edit in Quizmaker Edit Properties

Read ALL the Instructions Before Proceeding

If you have completed the training and passed the test next you'll need to confirm participation in this course to obtain credit on your Learner Transcript.